Distribution Agreement

In presenting this thesis or dissertation as a partial fulfillment of the requirements for an advanced degree from Emory University, I hereby grant to Emory University and its agents the non-exclusive license to archive, make accessible, and display my thesis or dissertation in whole or in part in all forms of media, now or hereafter known, including display on the world wide web. I understand that I may select some access restrictions as part of the online submission of this thesis or dissertation. I retain all ownership rights to the copyright of the thesis or dissertation. I also retain the right to use in future works (such as articles or books) all or part of this thesis or dissertation.

Signature:

Timothy Shu

Date

Associations of Dietary, Lifestyle, and Other Participant Characteristics with APC, β-catenin, E-cadherin, and MSH2 Expression in the Normal Mucosa of Sporadic Colorectal Adenoma Patients

By

Timothy Shu Master of Public Health

Department of Epidemiology

Roberd Bostick, MD, MPH Committee Chair

Associations of Dietary, Lifestyle, and Other Participant Characteristics with APC, β-catenin, E-cadherin, and MSH2 Expression in the Normal Mucosa of Sporadic Colorectal Adenoma Patients

By

Timothy Shu

B.S. Duke University 2017

Thesis Committee Chair: Roberd Bostick, MD, MPH

An abstract of a thesis submitted to the Faculty of the Rollins School of Public Health of Emory University in partial fulfillment of the requirements for the degree of Master of Public Health in the Department of Epidemiology 2019

Abstract

Associations of Dietary, Lifestyle, and Other Participant Characteristics with APC, β-catenin, E-cadherin, and MSH2 Expression in the Normal Mucosa of Sporadic Colorectal Adenoma Patients

By Timothy Shu

Abnormal expression of the Wnt pathway proteins APC, β -catenin, and Ecadherin, as well as of the DNA mismatch repair protein MSH2 is common during colorectal carcinogenesis. To investigate associations of selected demographic, lifestyle, dietary, and medical characteristics with the expression of these proteins in the normal-appearing colorectal mucosa of sporadic colorectal adenoma patients, we measured APC, β-catenin, E-cadherin, and MSH2 colorectal crypt expression in biopsies of the normal-appearing colorectal mucosa from 104 participants using automated immunohistochemistry and quantitative image analysis. We used multivariable general linear models to compare mean biomarker expression across categories of participant characteristics. For those with the highest total meat consumption versus the lowest, the adjusted mean ratio of APC expression to β-catenin expression $(APC/\beta$ -catenin) was 33% lower (p=0.03) in the whole crypt. For those with the highest vegetable and fruit consumption versus the lowest, mean E-cadherin expression was 29% higher (p=0.02) in the whole crypt. For those with the highest serum 25-OH vitamin D concentrations versus the lowest, the ratio of MSH2 expression to mib-1 expression (MSH2/mib-1 score) was 29% higher (p=0.03) in the whole crypt. These findings support that (i) lower total meat consumption, higher vegetable and fruit consumption, and higher vitamin D exposure may be favorably associated with the expression of biomarkers of risk for colorectal neoplasms in the normal-appearing colorectal mucosa, and (ii) further investigation into associations of demographic, lifestyle, dietary, and medical characteristics with biomarkers of risk for colorectal neoplasms is warranted.

Associations of Dietary, Lifestyle, and Other Participant Characteristics with APC, βcatenin, E-cadherin, and MSH2 Expression in the Normal Mucosa of Sporadic Colorectal Adenoma Patients

By

Timothy Shu

B.S. Duke University 2017

Thesis Committee Chair: Roberd Bostick, MD, MPH

A thesis submitted to the Faculty of the Rollins School of Public Health of Emory University in partial fulfillment of the requirements for the degree of Master of Public Health in the Department of Epidemiology 2019

Introduction

While colorectal cancer (CRC) mortality and incidence in the US has steadily decreased over the last 30 years, CRC is still the 2nd leading cause of cancer-related death in the US, with 14.8 deaths per 100,000 in 2014 (1-2). Targeting this cancer as a public health concern requires an understanding of the causal components at play. A large proportion of CRC incidence can be attributed to a combination of environmental exposures, such as smoking, alcohol consumption, and a sedentary lifestyle (3). At the molecular level, these risk factors often lead to alterations in specific pathways tied to cellular functions, such as transcription or DNA repair. For instance, the adenomatous polyposis coli (APC) protein drives ubiquitination to regulate transcriptional pathways and is defective in many cases of CRC (4). Another well-documented molecular cause of disease stems from mutations or epigenetic silencing of DNA mismatch repair genes, such as MSH2 (5). Because of the associations between the aforementioned pathway defects and CRC, these molecules have potential as easily measurable endpoints for colorectal cancerrelated outcomes.

There is strong biological plausibility and observational evidence for the association of environmental risk factors with the aforementioned biomarkers. Calcium and vitamin D intake was found to modulate the APC pathway and the expression of pathway-specific proteins: APC, β -catenin, and E-cadherin (6-7). Calcium and vitamin D was also associated with differential expression of the mismatch repair protein MSH2 (8). While the associations of these specific dietary

factors with biomarkers of risk were previously studied, it is unknown whether other modifiable environmental factors are also associated with these biomarkers.

A goal of our research group is to identify and utilize modifiable, preneoplastic biomarkers of risk for colorectal neoplasms. The adenomatous polyp, a benign neoplasm that is a precursor of CRC, is currently the only accepted biomarker of risk for CRC, so understanding other biomarkers could improve CRC risk assessment and management (9). Our goal is to investigate APC, β -catenin, Ecadherin, and MSH2 as pre-neoplastic biomarkers to: (i) identify demographic, lifestyle, dietary, and medical exposures that are associated with differences in biomarker expression; (ii) corroborate the validity of these biomarkers as screening endpoints for the potential efficacy and optimal doses of preventive interventions against colorectal carcinogenesis; and (iii) further understand relevant mechanisms of CRC etiology in humans.

Previous studies tested the effects of vitamin D and calcium on the expression of APC, β -catenin, E-cadherin, and MSH2 in the colorectal mucosa, but our aim was to observationally assess associations of a wide selection of participant characteristics with these biomarkers (10-11). Based on the aforementioned biological plausibility and the previous biomarker trials, we hypothesized that pro-colorectal carcinogenic risk factors would be associated with lower APC expression, higher β -catenin expression, lower E-cadherin expression, and lower MSH2 expression, while anti-carcinogenic risk factors would be associated with higher APC expression, lower β -catenin expression, higher E-cadherin expression, and lower MSH2

higher MSH2 expression in the normal-appearing colorectal mucosa of sporadic colorectal adenoma patients.

Materials and Methods

Participant Population

Study participants were recruited from two clinical centers as part of a larger randomized, placebo-controlled, chemoprevention clinical trial testing the efficacy of supplemental calcium and vitamin D for preventing colorectal adenoma recurrence. Eligible participants were 45-75 years old, in general good health, and within 4 months of study entry had a colonoscopy resulting in a histologically identified neoplastic polyp $\geq 2mm$ in diameter. Exclusion criteria included an invasive carcinoma in any polyp removed, familial colonic polyposis syndromes, inflammatory bowel diseases, malabsorption syndromes, history of large bowel resection, alcohol or narcotic dependence, serum calcium outside the normal range, creatinine greater than 20% over the upper limit of normal, serum 25-hydroxy D <12ng/mL or >90ng/mL history kidnev vitamin of stones or hyperparathyroidism, and history of osteoporosis or other medical condition that could require supplemental vitamin D or calcium. Additional exclusion criteria for the adjunct study included being unable to be off aspirin for 7 days, history of a bleeding disorder, or current use of an anticoagulant medication.

Clinical Trial Protocol

For the parent study, between May 2004 and July 2008, 19,083 apparently eligible patients were identified through initial screening of colonoscopy and pathology reports. Of these, 2,259 met the final eligibility criteria, consented to participate, and were randomized. After the initial parent study was underway, funding was received for the adjunct biomarker study. For the adjunct study, near the end of the placebo run-in period, without knowledge of treatment assignment, 231 apparently eligible parent study participants at two clinical centers (South Carolina and Georgia) were offered participation in the biomarker study. Of these, 109 met the final eligibility criteria, signed consent, and had baseline rectal biopsies taken; of these, sufficient biopsy tissue for biomarker measurements was obtained at baseline and one year follow up on 104. All participants signed a consent form upon enrollment and the Institutional Review Boards at each center approved the research.

At enrollment, the coordinator collected information from each study participant on medical history, medication and nutritional supplement use, diet, and lifestyle. Diet was assessed using a semi-quantitative Block Brief 2000 food frequency questionnaire (NutritionQuest, Berkeley, CA). Blood to measure calcium, creatinine, 25(OH)D, and 1,25(OH)₂D concentrations was also obtained at baseline.

Biopsy Collection

Participants underwent biopsies of normal-appearing rectal mucosa without any preceding bowel cleansing procedure. Six 1mm thick biopsies of were collected from the rectal mucosa 10cm above the external anal aperture through a proctoscope using jumbo cup biopsy forceps. Biopsies were immediately placed into saline, oriented, transferred to 10% normal-buffered formalin for 24 hours, then transferred to 70% ethanol for up to a week, and then embedded in paraffin blocks. (two blocks of three biopsies per participant, per visit). APC, β-catenin, E-cadherin, and MSH2 (plus mib-1 [Ki-67 epitope]) were measured in the biopsies using automated immunohistochemistry with image analysis. (Mib-1 was included for the present analyses as a marker of proliferation, strictly to assess MSH2 expression relative to proliferation.)

Immunohistochemistry Protocol

Five slides with three levels of 3μ m-thick biopsy sections taken 40μ m apart were prepared for each biomarker. Heat-mediated antigen retrieval was then used to uncover the epitope. Slides were placed into a preheated Pretreatment Module (Lab Vision Corp., Fremont, CA) with 100x citrate buffer pH 6.0 (DAKO S1699, DAKO Corp., Carpinteria, CA) and steamed for 40 minutes. The slides were then put into a DakoCytomation Autostainer Plus system that immunohistochemically processed the slides using a streptavidin-biotin method (LSAB2 Detection System[DAKO K0675]) and a monoclonal antibody to each biomarker (for APC, Oncogene OP80 at a concentration of 1:50; for β -catenin, BD Pharmingen [formerly Transduction] Laboratories 610154] at a concentration of 1:300; for E-cadherin, Zymed 33-4000 at a concentration of 1:50; for MSH2, Calbiochem NA27 at a concentration of 1:500; and for mib-1, DAKO M7240 at a concentration of 1:350). The slides were not counterstained and were coverslipped with a Leica CV5000 Coverslipper (Leica Microsystems, Inc., Buffalo Grove, IL). Positive and negative control slides were included in each staining batch.

Quantifying Labeling Densities of Biomarkers in Normal Colon Crypts

Immunohistochemically-detected levels of the biomarkers in colon crypts were measured using quantitative image analysis. First, slides were scanned using the Aperio Scanscope CS digital scanner (Aperio Technologies, Inc., Vista, CA). Next, these electronic images were reviewed with the CellularEyes program (DivEyes LLC, Atlanta, GA) to identify colon crypts that would be acceptable for analysis. A "scorable" crypt was defined as an intact crypt that extended from the muscularis mucosa to the colon lumen. Before analysis, images of the negative and positive control slides were checked to ensure staining adequacy. Standardized settings were used for all equipment throughout the scoring process. The technician, who was blinded to treatment assignment, selected two of three biopsies with 16-20 "scorable" hemicrypts (one half of the crypt) per biopsy and used a digital drawing board to trace the border of each hemicrypt. The program then divided the hemicrypt outline into equally spaced segments (with the average widths of normal colonocytes) and measured the background-corrected optical density of the labeled biomarker across the entire hemicrypt and for each individual segment. Resulting data were automatically transferred into the MySOL database (Sun Microsystems Inc., Redwood Shores, CA). These analysis steps were then repeated for the next identified hemicrypt. A reliability control sample that had been previously analyzed by the reader was re-analyzed over the course of the trial to determine intra-reader "scoring" reliability. The intra-class correlation coefficient for each biomarker was >0.90.

Statistical Analysis

All analyses were cross-sectional, using baseline data only. We summarized participant characteristics using simple descriptive statistics, such as means, ranges, and standard deviations for continuous variables, and proportions as percentages for categorical variables.

To assess associations of the biomarkers with selected participant characteristics, we used multivariable general linear models to compare adjusted mean biomarker expression across categories (e.g., tertiles of dietary intakes) of the participant characteristics. These models contained the intercept, the characteristic of interest, staining batch, and potential confounders. The criteria for including a baseline characteristic potential confounder whether as was its а inclusion/exclusion led to a change of $\geq 10\%$ in the estimated difference in mean biomarker expression between the lowest and highest categories of the characteristic of interest. The covariates included in the final model for each characteristic are reported in Supplementary Table S1. We analyzed biomarker expression in the whole crypt and in crypt functional zones, including the upper 40% of crypts (the differentiation zone), the lower 60% of crypts (the proliferation zone), and the ratio of upper 40% to the whole crypt (the ϕ h of crypts, the distribution index).. Also, to assess anti-proliferative APC relative to proproliferative β -catenin expression, we calculated an APC/ β -catenin ratio. To assess MSH2 expression relative to proliferation, we calculated an MSH2/mib-1 ratio.

All statistical analyses were conducted using SAS software Version 9.4 (SAS Institute, Cary, NC). Two-sided p-values ≤0.05 were considered statistically

significant. For this pilot study, we also noted participant characteristics for which estimated adjusted mean biomarker proportional differences between the lowest and highest participant characteristic category was $\geq 20\%$ and/or had a p-value ≤ 0.20 , plus there was a roughly dose-response pattern to the means across the categories (if > 2 categories).

Results

Participant Characteristics

Selected characteristics of the study participants are summarized in Table 1. The mean age of participants was 59 years (range from 47–75 years), 46% of participants were male, and 79% were white. 97% of the participants had at least a high school education. Also, 8% were current smokers and 38% characterized their physical activity level as "high." Participant's BMI ranged from 21.0–54.1 kg/m² (mean 29.6 kg/m²) and their serum 25-OH-vitamin D concentrations ranged from 12.9–68.8 ng/mL (mean 24.1 ng/mL).

Biomarker Expression by Characteristic

Adjusted mean expression of APC, β -Catenin, E-cadherin, and MSH2 in the whole crypt, the upper 40% of the crypt, and the lower 60% of the crypt, by level of selected participant characteristics is presented in Tables 2–7. In Table 2, we summarize the strongest findings for all of the biomarkers. The criteria for inclusion in this table were: estimated proportional mean differences in biomarker expression between the highest and lowest categories of the exposure variable \geq 20% and/or a p-value of <0.20, plus at least an approximate dose-response pattern. More comprehensive findings and exact values are provided in Tables 3–6. The findings for minimally-adjusted mean biomarker expression and the ϕ h of crypts are presented in Supplementary Tables S2–S7.

The mean adjusted APC expression among participants in the highest relative to those in the lowest tertile of total meat consumption was estimated to be 18.8%lower (p=0.12) in whole crypts and 22.7% lower (p=0.14) in the lower 60% of crypts. Similarly the mean adjusted APC expression among participants in the highest relative to those in the lowest tertile of saturated fat consumption was estimated to be 14.2% lower (p=0.18) in whole crypts and 18.8% lower (p=0.19) in the lower 60% of crypts. The mean adjusted APC expression among participants in the highest relative to those in the lowest tertile of total fat consumption was estimated to be 17.8% lower (p=0.19) in the lower 60% of crypts. The mean adjusted APC expression among participants in the highest relative to those in the lowest tertile of vegetable and fruit consumption was also estimated to be 22.0% lower (p=0.20) in the lower 60% of crypts, although the direction of this association was opposite to that hypothesized. The estimated associations of the following participant characteristics with APC did not meet our criteria outlined in the statistical analysis section for inclusion in Table 2: age, aspirin use, other NSAID use, smoking, physical activity, BMI, serum 25-OH vitamin D concentrations, total vitamin E intake, total calcium intake, and dietary fiber intake.

β-Catenin

The mean adjusted β -catenin expression among participants in the highest relative to those in the lowest tertile of total meat consumption was estimated to be 27.2% higher (p=0.06) in the whole crypts. The mean adjusted β -catenin expression

among participants who were current smokers relative to those who were not was estimated to be 20.3% higher (p=0.39) in the upper 40% of crypts, and the mean adjusted β -catenin expression among participants who regularly took aspirin relative to those who did not was estimated to be 11.3% lower (p=0.06) in the lower 60% of crypts. The mean adjusted β -catenin expression among participants in the highest relative to those in the lowest tertile of saturated fat consumption was estimated to be 20.4% lower (p=0.04) in the whole crypts. Similarly, the mean adjusted β-catenin expression among participants in the highest relative to those in the lowest tertile of total fat consumption was estimated to be 14.2% lower (p=0.08) in the whole crypts. The mean adjusted β -catenin expression among participants in the highest relative to the lowest tertile of total calcium intake was estimated to be 12.0% higher (p=0.17) in the whole crypts. Also, the mean adjusted β-catenin expression among participants in the highest relative to the lowest tertile of serum 25-OH vitamin D was estimated to be 23.6% higher (p=0.09) in the lower 60% of crypts. The estimated associations of β -catenin expression with saturated fat consumption, total fat consumption, total calcium intake, and serum 25-OH vitamin D were in directions opposite to those hypothesized. The estimated associations of the following participant characteristics with β -catenin expression did not meet our criteria outlined in the statistical analysis section for inclusion in Table 2: age, other NSAID use, physical activity, BMI, total vitamin E intake, dietary fiber intake, and vegetable and fruit consumption.

The ratio of mean adjusted APC expression to β -catenin expression among participants in the highest relative to the lowest tertile of total meat consumption was estimated to be 32.8% lower (p=0.03) in whole crypts, 35.2% lower (p=0.03) in the upper 40% of crypts, and 30.7% lower (p=0.08) in the lower 60% of crypts. The ratio of mean adjusted APC expression to β-catenin expression among participants in the highest relative to the lowest tertile of serum 25-OH vitamin D was estimated to be 25.0% higher (p=0.24) in the whole crypts and 30.8% higher (p=0.19) in the upper 40% of crypts. The ratio of mean adjusted APC expression to β -catenin expression among participants who were current smokers relative to those who were not was estimated to be 33.7% lower (p=0.18) in the whole crypts, 36.7% lower (p=0.20) in the upper 40% of crypts, and 29.2% lower (p=0.34) in the lower 60% of crypts. The ratio of mean adjusted APC expression to β -catenin expression among participants in the highest relative to the lowest tertile of dietary fiber intake was estimated to be 34.3% higher (p=0.31) in the whole crypts and 54.6% higher (p=0.07) in the upper 40% of crypts. Also, the ratio of mean adjusted APC expression to β -catenin expression among participants in the highest relative to the lowest tertile of total calcium intake was estimated to be 21.1% lower (p=0.25) in the upper 40% of crypts, although the direction of this association was opposite to those hypothesized. The estimated associations of the following participant characteristics with the ratio of APC expression to β -catenin expression did not meet our criteria outlined in the statistical analysis section for inclusion in Table 2:

age, aspirin use, other NSAID use, physical activity, BMI, saturated fat consumption, total fat consumption, total vitamin E intake, and vegetable and fruit consumption.

E-Cadherin

The mean adjusted E-cadherin expression among participants in the highest relative to those in the lowest tertile of vegetable and fruit consumption was estimated to be 28.5% higher (p=0.02) in the whole crypts and 31.4% higher (p=0.16) in the lower 60% of crypts. Similarly, the mean adjusted E-cadherin expression among participants in the highest relative those in the lowest tertile of total calcium intake was estimated to be 19.0% higher (p=0.10) in the whole crypts and 20.2% higher (p=0.11) in the lower 60% of crypts. The mean adjusted Ecadherin expression among participants in the highest relative those in the lowest tertile of dietary fiber intake was estimated to be 35.4% higher (p=0.19) in the upper 40% of crypts. However, the mean adjusted E-cadherin expression among the oldest relative to the youngest tertile of participants was estimated to be 38.7% lower (p=0.25) in the upper 40% of crypts. The mean adjusted E-cadherin expression among participants in the highest relative to those in the lowest tertile of serum 25-OH vitamin D was estimated to be 23.7% lower (p=0.01) in the whole crypts, 35.4% higher (p=0.48) in the upper 40% of crypts, and 24.2% lower (p=0.01) in the lower 60% of crypts. The mean adjusted E-cadherin expression among the participants in the three highest categories relative to the lowest category of BMI was estimated to be 67.8% higher (p=0.16) in the upper 40% of crypts. However, the mean adjusted E-cadherin expression among the participants

with high relative to low physical activity was estimated to be 6.2% lower (p=0.20) in the whole crypts and 7.3% lower (p=0.18) in the lower 60% of crypts. The estimated associations of E-cadherin expression with serum 25-OH vitamin D (in the whole crypts and lower 60% of crypts), BMI, and physical activity were in directions opposite to those hypothesized. The estimated associations of the following participant characteristics with E-cadherin expression did not meet our criteria outlined in the statistical analysis section for inclusion in Table 2: aspirin use, other NSAID use, smoking, saturated fat consumption, total fat consumption, total vitamin E intake, and total meat consumption.

MSH2

The mean adjusted MSH2 expression among participants in the highest relative to those in the lowest tertile of serum 25-OH vitamin D was estimated to be 25.2% higher (p=0.08) in the whole crypts and 23.6% higher (p=0.09) in the lower 60% of crypts. The mean adjusted MSH2 expression among participants who took aspirin relative those who did not was estimated to be 12.7% lower (p=0.03) in the whole crypt, 30.5% higher (p=0.70) in the upper 40% of crypts, and 11.3% lower (p=0.06) in the lower 60% of crypts. The mean adjusted MSH2 expression among participants who were current smokers relative those who were not was estimated to be 259.4% lower (p=0.20) in the upper 40% of crypts. Similarly, the mean adjusted MSH2 expression among participants in the three highest categories relative to those in the lowest category of BMI was estimated to be 93.2% lower (p=0.06) in the upper 40% of crypts. The mean adjusted MSH2 expression among participants in the lowest category of BMI was estimated to be 93.2% lower (p=0.06) in the upper 40% of crypts. The mean adjusted MSH2 expression among participants in the lowest category of BMI was estimated to be 93.2% lower (p=0.06) in the upper 40% of crypts. The mean adjusted MSH2 expression among participants in the lowest category of BMI was estimated to be 93.2% lower (p=0.06) in the upper 40% of crypts.

highest relative to those in the lowest tertile of total calcium intake was estimated to be 20.5% lower (p=0.05) in the whole crypts, 34.0% lower (p=0.91) in the upper 40% of crypts, and 16.4% lower (p=0.11) in the lower 60% of crypts. The estimated associations of MSH2 expression with aspirin use (in the whole crypts and lower 60% of crypts) and total calcium intake (in the whole crypts and lower 60% of crypts) were in directions opposite to those hypothesized.

Ratio of MSH2 to Mib-1

The ratio of mean adjusted MSH2 to mib-1 expression among participants in the highest relative to those in the lowest tertile of serum 25-OH vitamin D was estimated to be 28.9% higher (p=0.03) in the whole crypts. The ratio of mean adjusted MSH2 to mib-1 expression among participants who were current smokers relative to those who were not was estimated to be 22.5% lower (p=0.38) in the whole crypts. Similarly, the ratio of mean adjusted MSH2 to mib-1 expression among participants who used aspirin relative to those who did not was estimated to be 15.4% lower (p=0.04). The ratio of mean adjusted MSH2 to mib-1 expression among participants in the highest relative to those in the lowest tertile of total calcium intake was also estimated to be 13.6% lower (p=0.17). However, the estimated associations of the ratio of MSH2 to mib-1 expression with aspirin use and total calcium intake were in directions opposite our hypothesis. The estimated associations of the following participant characteristics with MSH2 expression did not meet our criteria outlined in the statistical analysis section for inclusion in Table 2: age, other NSAID use, physical activity, saturated fat consumption, total fat consumption, total vitamin E intake, dietary fiber intake, meat consumption, and vegetable and fruit consumption.

Discussion

Our findings suggest that age, sex, NSAID use, smoking, physical activity, body fatness, vitamin D exposure, and dietary intakes of total and saturated fats, vitamin E, calcium, fiber, meat, and fruit and vegetables may be associated with biomarkers of colorectal carcinogenesis pathways in the normal-appearing colorectal mucosa of sporadic colorectal adenoma patients. These associations, although cross-sectional, suggest that the exposures may affect colorectal carcinogenesis pathways in the colorectal epithelium and thus, risk for colorectal neoplasms, which supports further investigation in larger studies.

More specifically, our results suggest that based on their estimated associations with APC, β -catenin, and E-cadherin expression, the following may be associated with a colorectal mucosa at higher risk for colorectal carcinogenesis through the APC pathway: being older or male, smoking, and consuming more meat and less dietary fiber. The findings for saturated fat, calcium and vegetable and fruit intakes, and 25-OH-vitamin D concentrations were mixed: saturated fat was inversely associated with APC expression (as hypothesized) in the whole and lower 60% of crypts, but also inversely associated with β -catenin expression (opposite to hypothesis) in the whole crypt; however, it was not associated with the APC/ β catenin ratio. Similarly, total fat was inversely associated with APC in the lower 60% of crypts and with β -catenin in the whole crypt, and not associated with the APC/ β -catenin ratio. Calcium intake was directly associated with β -catenin and inversely associated with the APC/ β -catenin ratio (neither as hypothesized). Vegetable and fruit intakes were directly associated with E-cadherin in whole crypts and the lower 60% of crypts as hypothesized, but inversely associated with APC in the lower 60% of crypts. The associations of 25-OH-vitamin D with the APC/ β -catenin ratio and E-cadherin in the upper 40% of crypts were direct, as hypothesized; however, its associations with β -catenin in the lower 60% of crypts was direct, with the APC/ β -catenin ratio was indirect, and with E-cadherin in whole crypts and the lower 60% of crypts was inverse. Finally, physical activity was inversely associated with E-cadherin in the whole and lower 60% of crypts, and BMI was directly associated with E-cadherin in the upper 40% of crypts; these findings were not consistent with our hypotheses.

Our findings also suggest that based on their associations with MSH2 expression, the following may be associated with a colorectal mucosa at higher risk for colorectal carcinogenesis through the DNA mismatch repair pathway: sex, smoking, obesity, and vitamin D exposure. The findings for NSAID use and calcium intakes were mixed: NSAID use was directly associated with MSH2 (as hypothesized) in the upper 40% of crypts, but inversely associated with it in the whole and lower 60% of crypts; it was also inversely associated with the MSH2/mib-1 ratio in the whole crypt.

The cellular mechanisms for the associations of various dietary and medical characteristics with APC, β -catenin, E-cadherin, and MSH2 were previously investigated. Meat, specifically red meat, contains high levels of heme, an iron-porphyrin metalloprotein. Heme consumption by rats was found to induce lipid peroxidation in the colon leading to cell surface damage and APC mutation (12).

Calcium was found to stimulate E-cadherin production through the CaSR promoter system in colon cells *in vitro* (13). Finally, cigarette smoking was found to induce hypermethylation in APC promoter regions, leading to lower expression of APC (14). While inverse associations of vitamin D and vegetable and fruit consumption, and direct associations of saturated fats with colon cancer have been reported, the exact underlying cellular mechanisms are not well understood. Saturated fat consumption increases the production of secondary bile acids, which damages cell structures via an oxidative mechanism that can activate compensatory hyperproliferation via an upregulated *wnt* (and thus APC) pathway (15). On the other hand, secondary bile acids can damage DNA, leading to mutations, such as to APC, which would lead to diminished APC expression. It is possible that these mixed effects of saturated fats may somewhat explain our mixed results for associations of saturated fats with APC pathway biomarkers. Vegetables and fruit contain antioxidant micronutrients that may help mitigate the oxidative effects of the bile acids produced from saturated fat intakes (16).

Previous trials assessed the effects of vitamin D and calcium on the aforementioned biomarkers. Liu et al reported the effects of supplemental vitamin D and calcium over one year on APC, β -catenin, and E-cadherin expression in colon crypts in the same 104-person cohort used for our cross-sectional analyses (10). Our observational findings are consistent with several of the clinical trial findings for vitamin D and calcium. In the trial, vitamin D supplementation increased the APC/ β -catenin ratio by 28%, and calcium supplementation increased E-cadherin expression, especially in the upper 40% of the crypt. However, in the trial, it was

estimated that the supplemental vitamin D slightly increased E-cadherin expression, whereas in the current observational analysis, the associations of 25-OH-vitamin D with different parameters of the crypt were mixed (consistent with the findings in the trial in the upper 40% of crypts but inverse in the whole and lower 60% of crypts). The reasons for the discrepancies are unclear. The finding in the clinical trial may be more valid because of the randomized, controlled design and the larger vitamin D exposure than in the observational study. A second study used the same 104-person cohort to assess the effects of supplemental vitamin D and calcium on the expression of MSH2, TGF α , and TGF β_1 (11). Consistent with our observational findings, supplemental vitamin D increased the MSH2/mib-1 ratio, but supplemental calcium decreased it in the upper 40% of the crypt.

Our study had several strengths and limitations. One of the primary limitations was the small sample size, which limited our ability to detect associations, and also increased the potential for chance observations. Despite this limitation, we still detected statistically significant associations of meat consumption with a lower APC/ β -catenin expression ratio, vegetable and fruit consumption with greater E-cadherin expression, and serum 25-OH-vitamin D concentrations with a greater MSH2/mib-1 expression ratio. Our study was also restricted to sporadic colorectal adenoma patients, so our findings may not be generalizable to other populations. Study strengths include (i) the comprehensive assessment of multiple dietary, lifestyle, demographic, and medical factors using multivariable general linear modeling, and (ii) the automated immunostaining and novel image analysis

software, which enabled quantification of crypt biomarker distributions and high biomarker scoring reliability.

In conclusion, the results of this preliminary, cross-sectional study, taken together with previous literature, suggest that age, sex, NSAID use, smoking, physical activity, body fatness, vitamin D exposure, and dietary intakes of total and saturated fats, vitamin E, calcium, fiber, meat, and fruit and vegetables intakes may be associated with biomarkers of colorectal carcinogenesis pathways in the normal-appearing colorectal mucosa of sporadic colorectal adenoma patients. These associations, although preliminary and cross-sectional, suggest that the exposures may affect colorectal carcinogenesis pathways in the colorectal epithelium, and thus risk for colorectal neoplasms, and so support further investigation in larger studies. These findings also support further study of the use of APC, β -catenin, E-cadherin, and APC/ β -catenin and MSH2/mib-1 ratios in the normal-appearing rectal mucosa, as potentially modifiable, pre-neoplastic markers of risk for colorectal neoplasms.

References

- 1. Edwards B, Ward E, Kohler B, et al. Annual report to the nation on the status of cancer, 1975-2006, featuring colorectal cancer trends and impact of interventions (risk factors, screening, and treatment) to reduce future rates. *Cancer*. 2010;116:544-573.
- American Cancer Society. Cancer facts & figures 2015. Atlanta: American Cancer Society. <u>https://www.cancer.org/content/dam/cancer-org/research/cancer-facts-and-statistics/annual-cancer-facts-and-figures/2015/cancer-facts-and-figures-2015.pdf</u>. Published 2015. Accessed April 23, 2019.
- Aleksandrova K, Pischon T, Jenab M, et al. Combined impact of healthy lifestyle factors on colorectal cancer: a large European cohort study. *BMC Med.* 2014;12: 168.
- 4. Kwong L, Dove W. APC and its modifiers in colon cancer. *Advances in Experimental Medicine and Biology*. 2009;656:85-106.
- 5. Dowty J, Win A, Buchanan D, et al. Cancer risks for *MLH1* and *MSH2*mutation carriers. *Human Mutation*. 2013;34(3):10.1002.
- Shen H, Ahearn T, Bostick R. Effects of calcium and vitamin D supplementation on crypt morphology in normal colon mucosa: A randomized clinical trial. *Molecular Carcinogenesis*. 2013;54(3):242-7.
- 7. Ahearn T, Shaukat A, Flanders W, Rutherford R, Bostick R. A randomized clinical trial of the effects of supplemental calcium and vitamin D3 on the APC/β-catenin pathway in the normal mucosa of colorectal adenoma patients. *Cancer Prevention Research*. 2012;5(10):1247-56.

- Sidelnikov E, Bostick R, Flanders W, Long Q, Fedirko V, Shaukat A, Daniel C, Rutherford R. Effects of calcium and vitamin D on MLH1 and MSH2 expression in rectal mucosa of sporadic colorectal adenoma patients. *Cancer Epidemiology*, *Biomarkers & Prevention*. 2010;19(4):1022-32.
- 9. Manne U, Shanmugam C, Katkoori V, Bumpers H, Grizzle W. Development and progression of colorectal neoplasia. *Cancer Biomark*. 2010;9:235–265.
- **10**. Liu S, Barry E, Baron J, Rutherford R, Seabrook M, Bostick R. Effects of supplemental calcium and vitamin D on the APC/β-catenin pathway in the normal colorectal mucosa of colorectal adenoma patients. *Molecular carcinogenesis*. 2016;56(2):412–424.
- 11. Kwan A, Um C, Rutherford R, et al. Effects of vitamin D and calcium on expression of MSH2 and transforming growth factors in normal-appearing colorectal mucosa of sporadic colorectal adenoma patients: A randomized clinical trial. *Molecular Carcinogenesis*. 2019;58:511–523.
- 12. Bastide N, Chenni F, Audebert M, Santarelli R, Tache S, Naud N, et al. A central role for heme iron in colon carcinogenesis associated with red meat intake. *Cancer Res.* 2015;75(5):870–879.
- 13. Chakrabarty S, Wang H, Canaff L, Hendy G, Appelman H, Varani J. Calcium sensing receptor in human colon carcinoma: interaction with Ca(2+) and 1,25dihydroxyvitamin D(3). *Cancer Res.* 2005;65(2):493–8.
- 14. Barrow T, Klett H, Toth R, Böhm J, Gigic B, Habermann N, ... Michels K. (2017). Smoking is associated with hypermethylation of the APC 1A promoter in

colorectal cancer: the ColoCare Study. *The Journal of pathology*. 2017;243(3):366–375.

- 15. Ajouz H., Mukherji D, Shamseddine A. Secondary bile acids: an underrecognized cause of colon cancer. *World journal of surgical oncology*. 2014;*12*(164).
- 16. Vece M, Agnoli C, Grioni S, Sieri S, Pala V, Pellegrini N, ... Krogh V. Dietary Total Antioxidant Capacity and Colorectal Cancer in the Italian EPIC Cohort. *PloS* one. 2015;10(11):e0142995.

	Mean or		, , , , , , , , , , , , , , , , , , ,
Characteristics	proportion	SD	Range
Demographics			
Sex (%)			
Male	46.2		
Female	53.8		
Race (%)			
White	78.9		
Black	19.2		
Other	1.9		
Age (yrs)	58.9	6.7	47 - 75
Lifestyle			
Currently smoke (%)	7.7		
Regularly ^b take aspirin (%)	38.5		
Regularly ^b take non-aspirin NSAID (%)	33.7		
Highest education level (%)			
High school	34.6		
College	36.5		
Graduate	26.0		
Physical activity level (%)			
Low	28.8		
Moderate	31.7		
High	38.5		
Body mass index (kg/m ²)	29.6	5.6	21.0 - 54.1
18.5 - 24.9	21.2		
25.0 - 29.9	41.3		
30.0 - 34.9	22.1		
35.0 - 39.9	11.5		
≥40.0	3.8		
Dietary intake			
Total energy (kcal/day)	1349	763	630.1 - 2936.4
Saturated fat (as % of total energy)	11.5	2.7	4.2 - 17.4
Total fat (as % of total energy)	36.3	7.4	17.8 - 58.5
Total ^c calcium (mg/1,000 kcal)	425	161	170.1 - 1085.2
Vitamin E (mg/1,000 kcal)	5.6	1.9	2.6 - 15.6
Dietary fiber (g/1,000 kcal)	10.7	4.0	4.6 - 22.4
Total vegetables and fruit (servings/day)	4.6	2.2	0.7 - 12.5
Total meat (servings/day)	1.7	0.9	0.2 - 5.0
Serum concentrations			
25-OH vitamin D (ng/mL)	24.1	9.3	12.9 - 68.8

Table 1. Selected baseline characteristics of the study participants^a (n = 104)

Abbreviations: SD, standard deviation; NSAID, non-steroidal anti-inflammatory drug; ^aA subset of colorectal adenoma patients participating in the Calcium/Vitamin D, Biomarkers and Colon Polyp Prevention Trial from the South Carolina and Georgia clinical centers.

^bTake at least one a week.

^cDietary plus supplemental intake.

Cildiacteristics																
	1	APC		م.	β-catenin		A	APC/β-catenin ^d	יס	. m	E-cadherin	5		MSH2	12	MSH2/mib-1 ^e
	Whole Upper Lower Whole Upper Lower Whole	lpper L	ower /	Whole	Upper	Lower	Whole		Lower	Lower Whole Upper	Upper	Lower	Lower Whole Upper Lower	Upper	Lower	Whole
	crypt 40% ^b 60% ^c crypt 40%	10% ^ь (°0%	crypt	40%	60%	crypt	crypt Upper 40% 60%	60%	crypt 40%	40%	60%	crypt	40%	60%	crypt
Lifestyle, demographics																
Age											÷					
Take aspirin						←							(↓ *)	→	£	(↓ *)
Take non-aspirin NSAID																
Smoke					→		÷	←	÷					+		←
Physical activity										(£				
Body mass index											Ð			÷		
Dietary intakes																
Saturated fat	÷		+	(← *)												
Total fat				£												
Total vitamin E																
Total calcium				∂				(→		→	(↓ *)	→	£	(
Dietary fiber							→	→			→					
Meat	÷		(→			+ *	+	+							
Vegetables and fruit			£							→ *		→				
Serum concentrations																
25-OH vitamin D)	→	→		(↓ *)	→	(← *)	→		→	→ *

Table 2. Summary of adjusted mean differences^a in the expression of colon carcinogenesis pathway proteins in the normal-appearing colorectal mucosa of colorectal adenoma patients (n = 104) across categories of participant characteristics

brackets [e.g., (\uparrow)] indicate that the direction of the difference was opposite that hypothesized. * Indicates a statistically significant (p < 0.05) finding. the direction (higher or lower, respectively) of the mean biomarker difference between a higher exposure category relative to the reference category. Arrows in Criteria for inclusion in this table are: estimated proportional mean difference ≥20% and/or a p-value <0.20 for the estimated difference. Up/down arrows indicate Associations assessed using indutivariable general intear models containing the characteristic of interest, staining batch, and measured contouriding variables.

^bBiomarker expression in the upper 40% of the crypt (the canonical differentiation zone).

^cBiomarker expression in the lower 60% of the crypt (the canonical proliferation zone).

^dAPC expression divided by β-catenin expression in the whole crypt, upper 40% of crypts, and lower 60% of crypts.

^eMSH2 expression divided by MIB1 expression in the whole crypt.

1.524 (1.311, 1.737) 1.555 (1.359, 1.751) 1.438 (1.246, 1.630) 1.525 (1.246, 1.630) 1.525 (1.246, 1.544) 1.400 (1.245, 1.554) 1.561 (1.262, 1.674)	,737) 2.1 ,751) 2.1 ,630) -5.6 ,554) -8.2 ,719) - ,505) -11.3
1,570 (1,385, 1,755) 1,377 (1,241, 1,512)	,/ 00) - ,512) -12.3
1,499 (1,063, 1,936)	,936) - 2.2
1,487 (1,292, 1,681)	,681) 2.5
	,670) 2.9
	,671) -
	,726) 7.2 635) 1.3
(1,482	,984) 40.4
	,0.71- (4.10,
	,671) -0.4
	- (666)
	,569) -5.7 (687) -2.1
1,641 (1,448, 1,834) 1.342 (1.154, 1,530)	,834) - .530) -18.2
1,476 (1,257, 1,695)	,695) -
	,555) -6.7 .780) 5.4
1,442 (1,192, 1,691) 1,518 (1,331, 1,705)	T with a
1,392 (1,170, 1,614)	
1,485 (1,279, 1,692)	,091) - ,705) 5.3 ,614) -3.4
(1,344,	
1,353 (1,163, 1,543)	
1,577 1,177 1,177 1,177 1,148	(1,385,1,755) (1,241,1,512) (1,263,1,570) (1,263,1,570) (1,262,1,680) (1,222,1,680) (1,222,1,681) (1,301,1,655) (1,301,1,655) (1,301,1,655) (1,301,1,655) (1,301,1,655) (1,301,1,655) (1,301,1,655) (1,301,1,655) (1,301,1,655) (1,301,1,655) (1,301,1,655) (1,215,1,656) (1,215,1,666) (1,215,1,569) (1

				3 534	(2 353 4 714)			2643	(2 241 3 04A)		
	1,269, 5,410)	7.6		1,719	(2,333, 4,7,14) (674, 2,765)	-51.3		2,905	(2,549, 3,261)		
	3,914, 5,136)	0.7	0.83	2,167	(1,048, 3,287)	-38.7	0.25	2,661	(2,279, 3,042)		0.78
	1,433, 5,537)			2,541	(1,551, 3,532)			2,994	(2,651, 3,336)		
	3,805, 4,824)	-13.4	0.08	2,256	(1,341, 3,170)	-11.2	0.27	2,513	(2,197, 2,829)	-16.1	0.05
		1	1	ļ		1	i	1			
	3,852, 4,903)	α' Ω	2	2,730	(1,736, 3,725)	- 12 7	88 U	2,616 2 810	(2,283, 2,949) /> 562 3 058)		0 91
		c t	0.00		(000	io o	(5
	4,108, 5,314) 4 190 4 940)	ן יי ני	0 42	2,235 2 484	(1,106, 3,365)	11 ,	0 66	2,786	(2,406, 3,167)		0.62
	1, 100, 1,210,	Ċ	0.00	4,404	(1,111,0,100)	11.1	0.00	1,000	(4,700, 4,010)		0.01
	4,308, 4,905)	י ג ג	0 80	2,345	(1,779, 2,911)	57 D	C2 C	2,734	(2,546, 2,922) /1 042 3 510)	-5 -	86.0
	(TTT 010 (TTTT 10		0.00	0,000	(1,000)	510		1		000	0000
	1,105, 5,321)	5,		2,553	(1,436, 3,670)	۰ م ۱		2,813	(2,432, 3,194)		
	3,898, 4,939)	-6.2	0.20	1,247	(291, 2,203)	-51.1	0.20	2,608	(2,282, 2,934)	-7:3	0.18
	3,913, 5,376) 4,133, 5,127)	-0 , 3		1,566 2.616	(214, 2,918) (1.697, 3.534)	- 67.0		2,724	(2,285, 3,210) (2,410, 3,038)	-0,9	
	4,001, 5,125)	-1.8	0.87	2,627	(1,588, 3,665)	67.8	0.16	2,728	(2,374, 3,083)	-0.7	0.94
	1.082. 5.300)			1.501	(300. 2.702)			2.858	(2.494.3.222)		
	3,701, 4,752)	e.e-	2	2,747	(1,711, 3,783)	83.0		2,523	(2,199, 2,846)	-11.7	
	+,244, 3,4U3J	2.0	0.90	2,730	(1,007, 3,084)	2.00	0.24	2,113	(2,424, 3,134)	-2.0	0.70
	3,563, 4,723)			2,708	(1,559, 3,857)	1 .		2,472	(2,105, 2,838)		
	3,965, 5,254)	11.3	0.35	2,226	(949, 3,504)	-17.8	0.68	2,712	(2,304, 3,119)	9.7	0.36
	1053 1 313			2 24 1	11 081 3 401)			2 4 8 8	10 117 2 8601		
	1,361, 5,447)	15.6		2,178	(1,121, 3,235)	-2.8		2,927	(2,588, 3,266)		
	5,969, 5,210J	0.0	0.54	2,090	(1,390, 3,707)	1.51	0.79	2,120	(2,343, 3,111)		0.4 I
	4,156, 5,386)			2,525	(1,375, 3,675)			2,831	(2,448, 3,215)		
	3,941, 5,077) 3 866, 5,209)	45 65	0.93	2,661 2.016	(1,599, 3,723) (761, 3,272)	5.4 -20.2	0.61	2,649 2.698	(2,294, 3,003) (2,280, 3,117)	-6.5	0.92
	3,741, 4,951)			2,510	(1,294, 3,725)	,		2,563	(2,180, 2,946)	,	
	3,574, 4,769) 4,558, 5,784)	-4.0 19.0	0.10	2,301 2.048	(1,101,3,501) (816,3,280)	-18.3	0.69	2,455 3,081	(2,077, 2,832) (2,693, 3,469)	-4.2 20.2	0.11
	3,763, 5,260)	0 . 7		2,045	(896, 3, 194)	ת י ה		2,679	(2,208, 3,151)	-0 -2	
	1,096, 5,504)	6.4	0.51	2,768	(1,490, 4,046)	35.4	0.19	2,847	(2,404, 3,290)	6.3	0.54
	3,681, 5,178) 3.917. 5.502)	1.2		1,724 3.115	(249, 3,198) (1.996, 4.233)	- 80.7		2,580	(2,111, 3,049) (2.374, 3,086)	ил 00'	
	4,110,5,435)	7.7	0.84	2,121	(816, 3,426)	23.1	0.78	2,791	(2,376, 3,207)	8.2	0.86
	0 016 / 6161			2 800	11 761 / 0101			006 6	12020 0 2021		
	4,361,5,441)	- 25.2		2,090 1.396	(1,701,4,019) (381,2.411)	-51.7		2,309 2.861	(1,932, 2,000) (2.521, 3.200)	- 23.9	
	4,410, 5,651)	28.5	0.02	3,042	(1,875, 4,208)	5.2	0.99	3,035	(2,645, 3,425)	31.4	0.16
	1,725, 5,885)	; ·		2,045	(896, 3, 194)			3,126	(2,764, 3,488)		
	3,821, 4,949) 2 403 4 603)	-17.3	0 01	2,178	(1,061, 3,295)	2F J	0 48	2,636	(2,284, 2,987)	-15.7	0 01
eroidal anti	5,403, 4,033	-23.7	donoit.	2,700	(1,700,7,070)	J.4	0,40	500,2	(1,001, 2,112)	2.42-	0.0
	4,4996 4,4996 4,4985 4,4525 4,4525 4,4525 4,4527 4,4755 4,4771 4,	446 (3.852, 5,140) 525 (3.914, 5,136) 526 (3.914, 5,136) 527 (3.862, 4,203) 787 (3.852, 4,003) 786 (4.374, 5,136) 667 (3.424, 5,911) 7713 (4.108, 5,314) 560 (4.137, 5,526) 7713 (4.108, 5,314) 563 (4.157, 5,528) 7713 (4.168, 5,911) 7733 (4.157, 5,528) 7713 (4.103, 5,127) 563 (4.013, 5,125) 563 (4.243, 5,403) 1243 (4,244, 5,403) 1243 (4,244, 5,403) 1243 (4,244, 5,403) 1253 (4,244, 5,403) 1254 (4,244, 5,433) 5059 (3,245, 5,254) 5059 (3,246, 5,209) 1271 (4,156, 5,206) 1272 (3,243, 5,274, 4,965) 1271 (4,258, 5,744, 4,961) 1272 (3,243, 5,774, 4,955) 1271 (4,258, 5,728, 6,10)	446 (3852, 5, 140) - 525 (3, 126, 5, 136) - 526 (3, 126, 5, 136) - 527 (3, 1352, 2, 493) - 526 (4, 136, 5, 136) - 527 (3, 1352, 2, 493) - 526 (4, 136, 5, 144) - 527 (3, 1362, 2, 493) - 526 (4, 136, 5, 144) - 627 (3, 424, 5911) 1.3 7713 (4, 125, 5, 221) - 626 (3, 123, 5, 276) - 627 (3, 424, 5911) 1.3 528 (4, 135, 5, 127) - 626 (3, 127, 5, 127) - 626 (3, 127, 1472) - 627 (4, 246, 5, 439) - 628 (4, 244, 5, 439) - 6393 (5, 126) - 645 (3, 266, 5, 2594) 11.3 6393 (5, 126) - 646 (3, 274, 4, 769) -	446 (3852, 5,140) $7,6$ 525 (3,914, 5,136) $7,6$ 0.83 595 (3,914, 5,136) $7,6$ 0.83 597 (3,852, 4,903) $-13,4$ 0.08 597 (3,852, 4,903) $-13,4$ 0.08 597 (3,852, 4,903) $-13,4$ 0.08 597 (4,398, 4,905) $-13,2$ 0.39 607 (4,398, 4,993) $-6,2$ 0.20 617 (4,105, 5,321) $-1,3$ 0.89 7733 (4,105, 5,321) $-1,3$ 0.89 7733 (4,10,5, 5,321) $-1,3$ 0.89 7853 (4,013, 5,127) $-1,3$ 0.39 583 (4,024, 5,07) $-5,5$ 0.54 609 (3,965, 5,264) 11.3 0.39 599 (3,965, 5,264) 11.3 0.35 599 (3,965, 5,264) 1.13 0.35 599 (3,965, 5,264) 1.13 0.35 5171 (4,136, 5,107)		3.554 (2.3.85, 4.714) 1.719 (174, 2.765) 2.179 (174, 2.765) 2.2541 (1.361, 3.287) 2.2266 (1.341, 3.170) 2.2271 (1.451, 2.961) 2.2273 (1.461, 2.961) 2.2264 (1.771, 3.196) 2.2271 (1.461, 2.961) 2.2353 (1.436, 3.870) 3.564 (2.77, 0.218) 2.5627 (1.566 2.5627 (1.563, 3.862) 2.5760 (1.607, 3.864) 2.7760 (1.563, 3.467) 2.7670 (1.961, 3.261) 2.7670 (1.963, 3.467) 2.7670 (1.963, 3.467) 2.7670 (1.963, 3.467) 2.768 (1.964, 3.261) 2.768 (1.964, 3.261) 2.768 (1.964, 3.261) 2.768 (1.964, 3.261) 2.768 (1.964, 3.261) 2.768 (1.964, 3.261) 2.768 (1.964, 3.261) 2.768 (1.964, 3.261) 2.768 <td< td=""><td>3.554 (2.365, 4.714) 1.719 (174, 2.766) 2.750 (1746, 3.767) 2.544 (1.961, 3.267) 2.221 (1.961, 3.262) 2.221 (1.961, 3.262) 2.221 (1.461, 2.961) 2.2353 (1.456, 3.762) 2.464 (1.771, 3.196) 2.464 (1.771, 3.196) 2.465 (1.762, 2.913) 2.466 (1.463, 3.870) 3.554 (2.914, 2.918) 2.667 (1.563, 3.665) 2.476 (1.607, 3.864) 2.7760 (1.563, 3.665) 2.2760 (1.563, 3.864) 2.2760 (1.961, 3.401) 2.266 (1.121, 3.263) 2.266 (1.121, 3.263) 2.266 (1.124, 3.272) 2.266 (1.124, 3.272) 2.266 (1.124, 3.272) 2.266 (1.124, 3.272) 2.266 (1.124, 3.263) 2.266 (1.124, 3.264) 2.276 (1.366, 3.464) 2.276 (1.961, 3.272) 2.661 (1.124, 3.272) 2.663 (1.369, 3.723) 2.663 (1.460, 3.266) 2.1724 (1.964, 3.266) 2.1724 (1.604, 3.266) 2.1724 (1.460, 3.266) 2.1724 (2.49, 3.198) 3.115 (1.606, 3.236) 2.1724 (2.49, 3.196) 3.145 (1.606, 3.236) 2.1724 (1.460, 3.266) 2.1724 (1.460, 4.046) 1.396 (3.194) 2.1724 (1.475, 4.208) 3.042 (1.875, 4.208) 3.042 (1.875, 4.208) 2.178 (1.061, 3.241) 3.042 (1.875, 4.208)</td><td>$\begin{array}{cccccccccccccccccccccccccccccccccccc$</td><td></td><td>$\begin{array}{cccccccccccccccccccccccccccccccccccc$</td><td>$\begin{array}{{ccccccccccccccccccccccccccccccccccc$</td></td<>	3.554 (2.365, 4.714) 1.719 (174, 2.766) 2.750 (1746, 3.767) 2.544 (1.961, 3.267) 2.221 (1.961, 3.262) 2.221 (1.961, 3.262) 2.221 (1.461, 2.961) 2.2353 (1.456, 3.762) 2.464 (1.771, 3.196) 2.464 (1.771, 3.196) 2.465 (1.762, 2.913) 2.466 (1.463, 3.870) 3.554 (2.914, 2.918) 2.667 (1.563, 3.665) 2.476 (1.607, 3.864) 2.7760 (1.563, 3.665) 2.2760 (1.563, 3.864) 2.2760 (1.961, 3.401) 2.266 (1.121, 3.263) 2.266 (1.121, 3.263) 2.266 (1.124, 3.272) 2.266 (1.124, 3.272) 2.266 (1.124, 3.272) 2.266 (1.124, 3.272) 2.266 (1.124, 3.263) 2.266 (1.124, 3.264) 2.276 (1.366, 3.464) 2.276 (1.961, 3.272) 2.661 (1.124, 3.272) 2.663 (1.369, 3.723) 2.663 (1.460, 3.266) 2.1724 (1.964, 3.266) 2.1724 (1.604, 3.266) 2.1724 (1.460, 3.266) 2.1724 (2.49, 3.198) 3.115 (1.606, 3.236) 2.1724 (2.49, 3.196) 3.145 (1.606, 3.236) 2.1724 (1.460, 3.266) 2.1724 (1.460, 4.046) 1.396 (3.194) 2.1724 (1.475, 4.208) 3.042 (1.875, 4.208) 3.042 (1.875, 4.208) 2.178 (1.061, 3.241) 3.042 (1.875, 4.208)	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{{ccccccccccccccccccccccccccccccccccc$

^dTake at least once a week. [°]Dietary plus supplemental intake.

Whole crypt, Upper 40% of crypts, Lower 60% of crypts,		Whole crypt,		- openning	_	Upper 40% of crypts,	з,			LOWER 00% OF CEPPES,			
Characteristics	-	mean (OD)	95% CI	difference ^c (%) P-value		mean (OD)	95% CI	difference ^c (%) P-value		mean (OD)	95% CI	difference ^c (%) P-value	P-valu
4ge (years) 47 - 54	34		(1,643, 2,193)			353	(-599, 1,305)			1.524	(1.311. 1.737)		
55 - 62	35	1,939	(1,687, 2,192)	1.1		320	(-556, 1,196)	-9.4		1,555	(1,359, 1,751)	2.1	
63 - 75	35		(1,609, 2,099)	ι. υ	0.79	966	(108, 1,825)	173.7	0.60	1,438	(1,246, 1,630)	-5.6	0.69
Sex	20		1000 1 1001			000	1000 1 D101			u C U	11070 1 0101		
Female	56	1,797	(1.601.1.992)	-6.3	0.37	167	(435, 1,010) (435, 769)	-82.0	n 19	1,929	(1,245, 1,554)	-8.2	0.17
rende boular ^d iso of senirin	30		(1,001, 1,952)	-0.2	0.27	107	(-430, 100)	-0.2.0	U.TS	1,400	(1,240, 1,004)	-0.2	0.1/
Regular [®] use of aspirin	64	1 008	1701 2 2014)			150	1-205 1214)	,		1 561	1 402 1 719)		
Yes	40	1,743	(1,586, 1,900)	-12.7	0.03	-+599	(25, 1,173)	30.5	0.70	1,384	(1,263, 1,505)	-11.3	0.06
Regular ^d use of other NSAID		ļ											
No	25	1,995	(1,752, 2,238)		0,00	542	(0.1, 1,622)		0 20	1,570	(1,385, 1,755)	-12 2	2020
res Currently smoke	35	1, /34	(1,55b, 1,911	-13.1	0.29	542	(-52, 1,130)	-33.2	0.39	1,377	(1,241, 1,312)	-12.3	0.30
No	96	1,863	(1,729, 1,998)			556	(97, 1,014)			1,467	(1,363, 1,570)		
Yes	00	1,903	(1,335, 2,471)	2.1	0.92	-886	(-2816, 1,044)	-259.4	0.20	1,499	(1,063, 1,936)	2.2	0.96
Physical activity													
Low	30		(1,522, 2,128)	· ·		845	(-149, 1,838)			1,450	(1,220, 1,680)	, ,	
High	27	1,973	(1.659 2.126)	2.7 8.2	0.95	953	(188 1719)	-02.4	0.65	1 492	(1,292, 1,001)	2.9	0.88
on w mass index (kø/m²)	ļ		(and the family of		0.010		()		0100	.,	Versi torol	!	0.00
<25.0	22	1.804	(1.511.2.097)			1.527	(509. 2.545)	,		1.448	(1.226. 1.671)		
25.0 - 29.9	43	1,989	(1,759, 2,218)	10.2		549	(-247, 1,344)	-64.1		1,552	(1,378, 1,726)	7.2	
≥30	39	1,879	(1,658, 2,099)	4.1	0.82	104	(-661, 870)	-93.2	0.06	1,468	(1,300, 1,635)	1.3	0.99
Total energy, tertiles	2					2							
	0 U.4	1,602	(1,306, 1,898)	ם הי י י		118	(-206, 1,839)	- 002		1,234	(1,009, 1,459)	10.0	
	5 8	1,000 2.173	(1.843, 2.504)	10.0 35.7	0.04	928	(-213, 2.068)	-03.2	0.81	1,470	(1.482.1.984)	40,4	0.02
Saturated fat, tertiles		1				ļ							
	34	1,942	(1,679, 2,205)			260	(-598, 1,119)	,		1,538	(1,338, 1,738)		
	2 23	1,860	(1,617, 2,102)	-4.2	7 5 0	550 572	(31, 1,613)	215.5	0 70	1,484	(1,300, 1,668)	-1, iu 0, iu	0 77
otal fat, tertiles		and the	10. of 100.						0.000		(i) total taxa (i)		
	34		(1,559, 2,105)			410	(-487, 1,307)			1,448	(1,239, 1,657)		
	;; ;;	1,838	(1,588, 2,088)	0.3	0 86	1,114 549	(292, 1,937)	33.9	0 97	1,461	(1,269, 1,653)	-0.4	0 80
Total [®] vitamin E, tertiles	;		fame to the second	ł			((in the for the for	-	
	34	1,852	(1,599, 2,105)			236	(-589, 1,061)			1,471	(1,276, 1,666)		
	35	1,749	(1,513, 1,985)	-5.6		699	(-73, 1,471)	196.7			(1,205, 1,569)	-5.7	
	35	1,928	(1,688, 2,168)	4.1	0.81	/94	(9, 1,578)	236.8	0.43		(1,316, 1,687)	2.1	0.95
1	24	2 1/22	11 980 7 2041			420	(-478 1 317)			1 641	(1 448 1 834)		
	ω. υ	1,678	(1,433, 1,923)	-21.6		689	(-183, 1,561)	64.1		1.342	(1,154, 1,530)	-18.2	
	35	1,703	(1,444, 1,961)	-20.5	0.05	562	(-357, 1,481)	34.0	0.91	1,371	(1,173, 1,569)	-16.4	0.11
Dietary fiber, tertiles	2	1 077	11 603 3 1611			277	1 646 1 2241			1 176	14 DET 1 60EV		
	л и л 4	1 726	(1,392, 2,IDI) (1 495, 1 956)	-80		1 115	(-040, 1,334)	- 224 1		1,470	(1,207, 1,090)	- 4-7	
	35 5	2,002	(1,711, 2,293)	6.7	0.65	14	(-998, 1,027)	-95.8	0.53	1,556	(1,332, 1,780)	5.4	0.67
Total meat intake, tertiles	; ³ 4	1,841	(1,513, 2,169)	· ·		1,328	(230, 2,425)	10000		1,442	(1,192,1,691)] -	
al meat intake, tertiles	3 8	1,914	(1,008, 2,100) (1,473, 2,057)	-4.1	0.38	233	(-744 1.210)	-82.5	0.38	1,392	(1,331,1,703)	-, . , 4	0.42
al meat intake, tertiles													
Total meat intake, tertiles 1 2 3 Total vegetable and fruit intake, tertiles	34	1,877	(1,604, 2,151)			166	(-695, 1,027)			1,485	(1,279, 1,692)		
al meat intake, tertiles al vegetable and fruit intake, tertile	υü	1,946	(1,713, 2,180)	3.7		1,219	(486, 1,953)	636.3	6	1,520	(1,344, 1,696)	2.3	5
al meat intake, tertiles al vegetable and fruit intake, tertile	35	1,709	(1,437, 1,982)	-8.9	0.45	338	(-519, 1,196)	104.4	0.68	1,354	(1,148, 1,560)	-8.8	0.40
al meat intake, tertiles al vegetable and fruit intake, tertilt			(1 460 1 956)			890	1-615 1 1501			1 252	11 163 1 543)		
Total meat intake, tertiles	24	1 677	(1,100, 1,00)	- <u>-</u>		1.396	(543 2 250)	4220		1,000	(1,100,1,010)	<u>-1</u> 20	
otal meat Intake, tertiles 1 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	334		(1.437.1.916)			7	(-998, 1,011)		0 90	1.672	(1.456. 1.889)	23.6	0.09
1 al meat intake, tertiles 2 2 2 bal vegetable and fruit intake, tertile 2 2 2 2 mar 25-0H-vitamin D (ng/mL) 27/5 226.9 226.9	333 554		(1,437, 1,916) (1,855, 2,420)	25.2	0.08	-		-97.5					

^dTake at least once a week. [©]Dietary plus supplemental intake.

Characteristics n	Whole crypt, mean (OD)	95% CI	difference" (%) P-value		Upper 40% of crypts, mean (OD)	95% CI	difference [®] (%) P-value		Lower 60% of crypts, mean (OD)	95% CI	difference [®] (%) P-value	value m	mean (OD)	95% CI	difference [®] (%) P-value	P-value
34	0.22												1.72			
35	0.24	(0.18, 0.31)	10.2			(0.15, 0.28)	11.6		0.29	(0.20, 0.38)	8.4		1.62	(1.37, 1.86)		
63-75 35		(0.16, 0.28)		0.92		(0.14, 0.25)	1.0	0.92		(0.17, 0.33)		0.96		(1.28, 1.78)	-11.2	0.36
		(-0 00 00)				LO 03 0 19)				-0.05 0.25)				157 194)		
Female 56	0.38	(-0.02, 0.20) (0.29, 0.47)	320.6	0.01	0.08	(0.25, 0.42)	326.4	0.01	0.43	(0.30, 0.55)	323.0 (0.02	1.49	(1.33, 1.65)	-15.1	0.05
use of aspirin																
	0.21	(0.15, 0.28)		2		(0.11, 0.24)	;.	3		(0.18, 0.35)		3		(1.54, 1.94)		2
res 40 Regular ¹ use of other NSAID		(U. ID, U.20)	-1-3	0.61	0.19	(0.14, 0.24)	0.5	0./1	0.24	(0.17, 0.36)	CTT-	0.30	.40	1.32, 1.001	-13,4	0.04
69 CINCN JAINO IO ASU J		(0.18, 0.27)			0.21	(0.16, 0.25)			0.25	(0.19, 0.31)			1.66	1.43, 1.89)		
35	0.25	(0.22, 0.28)	12.1	0.48		(0.19, 0.25)	6.1	0.97		(0.26, 0.34)	19.8 (0.22		(1.36, 1.69)	-7.8	0.72
Currently smoke		10 nn n n n n n n n n n n n n n n n n n				10 00 00 00 00 00 00 00 00 00 00 00 00 0				1000 0001				1 70 1 761		
80 00 00	0.17	(0.07, 0.26)	-33.7	0.18	0.14	(0.04, 0.23)	-36.7	0.20	0.21	(0.07, 0.34)	-29.2 0	0.34	1.26	(0.73, 1.79)	-22.5	0.38
Physical activity																
30		(0.14, 0.27)			0.18	(0.12, 0.24)			0.24	(0.16, 0.33)				(1.32, 1.89)		
Moderate 38		(0.14, 0.27)	-1.1			(0.12, 0.24)	-0.3			(0.15, 0.33)	-2.3		-	(1.17, 1.64)	-12.5	
		(0.15, 0.26)		0.81	0.19	(0.13, 0.25)	3.8	0.74		(0.14, 0.31)		0.89		1.48, 1.92)		0.76
Body mass index (kg/m ⁴)		10 18 0 201				10 15 0 261				10 00 0 351				1 37 1 0/1		
25.0 - 29.9 43	0.24	(0.21.0.28)	2.2		0.21	(0.18, 0.25)	2.1		0.28	(0.23, 0.33)	1.4		1.67	(1.46, 1.88)	1.0	
		(0.21, 0.29)		0.53		(0.18, 0.26)	7.0	0.51		(0.23, 0.34)		0.72		1.34, 1.76)		0.75
Total energy, tertiles																
34	0.25	(0.16.0.25)	-19.2		0.19	(0.15, 0.23)	- 16.8		0.29	(0.17.0.28)	-23,3		1.40	(1.33, 1.90)	-13.6	
35		(0.23, 0.34)	12.4	0.48		(0.19, 0.30)	9.5	0.67		(0.26, 0.41)		0.46		(1.43, 2.07)	8.4	0.74
Saturated fat, tertiles						14 0 001				000				1 20		
35	0.23	(0.19, 0.27)	-8.4		0.22	(0.18, 0.26)	1.2		0.24	(0.18, 0.30)	-19.3		1.71	(1.48, 1.93)	16.0	
35		(0.21, 0.30)	1.4	0.94		(0.17, 0.26)	1.2	0.94		(0.24, 0.37)	2.3 (0.87	1.58	(1.30, 1.86)		0.51
Total fat, tertiles 34	0.24	(0.20. 0.29)			0.22	(0.18.0.27)			0.26	(0.20. 0.32)			1.49	1.23. 1.75)		
35		(0.21, 0.30)	6.1			(0.19, 0.27)	3.0			(0.23,0.35)	13.2			(1.37, 1.85)		
3 35 Total ^s vitamin E. tertiles		(u.zu, u.su)		0.97		(0.15, 0.25)	5 5	0.50		(0.24, 0.38)		0.45		1.34, 1.91)	9.0	1.9.1
34		(0.16, 0.29)	•			(0.12, 0.26)				(0.18, 0.37)				1.29, 1.79)		
35	0.24	(0.18, 0.30)	7.8	0.68	0.20	(0.14, 0.26)	5.9	0.44	0.30	(0.21, 0.38)	-8.7	0.62	1.55 55	(1.32, 1.78)	0.7	0.51
Total ⁸ calcium, tertiles						· · · · · · · · · · · · · · · · · · ·										
		(0.22, 0.31)			0.24	(0.20, 0.29)			0.29	(0.23, 0.35)				1.51, 1.99)		
35	0.25	(0.20, 0.29)	-16.3	85.0		(0.17, 0.26)	-11.0	0.25		(0.23, 0.36)	-10.2	0.73	1.49	(1.25, 1.73)	-13.6	0.17
Dietary fiber, tertiles																
34		(0.16, 0.27)	14.0			(0.12, 0.23)	10 0		0.26	(0.19, 0.33)			1.66		0 '	
35	0.29	(0.23, 0.34)	34.3	0.31	0.27	(0.22, 0.32)	19.6 54.6	0.07		(0.23, 0.38)	18.1 (0.96	-	(1.22, 1.77)	-10.2	0.36
Total meat intake, tertiles																
		(0.25, 0.35)	, r		0.27	(0.22, 0.32)				(0.27, 0.41)	, , ,		1.47	1.17, 1.78)	ŝ.	
35	0.20	(0.18, 0.27)	-32.8	0.03		(0.13, 0.24)	-35.2	0.03	0.24	(0.17, 0.30)	-30.7 (0.08		(1.29, 1.82)	5.4	0.75
Total vegetable and fruit intake, tertiles																
34		(0.21, 0.31)				(0.19, 0.28)				(0.22, 0.36)			1.57	1.32, 1.83)		
35	0.23	(0.19, 0.27)	-11.9	0 0 2	0.21	(0.17, 0.25)	-12.1	0 51	0.26	(0.20, 0.32)	-10,4	61		(1.49, 1.94)	8.9	0 77
Serum 25-OH-vitamin D (ng/mL)		(0.10, 0.20)		000		(0.10, 0.20)		004		(0.22, 0.00)		0104		()		0.00
34 34	0.23	(0.19, 0.28)				(0.16, 0.24)				(0.22, 0.34)				(1.13, 1.61)		
		(0.17, 0.27)	4.0		0.20	(0.15, 0.25)	-1.6		0.26	(0.19, 0.32)	-8.0	1	1.62	(1.38, 1.86)	18.0	2
26.9				0.24		(0.21, 0.31)	30.8	U.U		(0.20, 0.40)		0.5/	L	1.49, 2.04)		0.03

 *MSH2 expression divided by mib-1 expression.

 *Caculated as (comparison guop mean - reference group mean) / (reference group mean) x 100%.

 *Take a tast once a weak.

 *Detary plus supplemental intake.

VPC/β-catenin VFC/β-catenin VFC/β	2x	Model covariates Aspirin, smoking, saturated fat, dietary fiber Fiber
Aspiri Other Smok Physis BMI Total Satur, Total Calciu Dieta Vitam Meat Veget Sex Aspiri Other Smok Physis BMI Total Satur, Total Calciu Dieta Vitam Vitam Vitam Vitam Vitam Vitam Vitam Vitam Vitam Vitam Vitam Vitam Vitam Satur, Total Calciu Dieta Satur, Total Calciu Dieta Satur, Total Calciu Dieta Satur, Total Calciu Dieta Satur, Total Satur, Total Calciu Dieta Satur, Total Calciu Dieta Satur, Total Calciu Dieta Satur, Total Calciu Dieta Satur, Total Calciu Dieta Satur, Total Satur, Total Satur, Total Satur, Total Satur, Total Satur, Total Satur, Total Calciu Dieta Satur, Total Calciu Dieta Satur, Total Satur, Total Satur, Total Calciu Dieta Satur, Total Calciu Dieta Satur, Total Calciu Dieta Satur, Total Calciu Dieta Satur, Total Calciu Dieta Satur, Total Calciu Dieta Satur, Total Calciu Dieta Satur, Total Satur, Total Satur, Total Satur, Total Calciu Dieta Satur, Total Calciu Dieta Satur, Total Satur,	spirin	
Application of the second		
Aspiri Aspiri Aspiri Aspiri Protectenin Age Sex Aspiri Other Sex Aspiri Total Calciu Dieta Sex Aspiri Total Calciu Dieta Vitam Vitam Meat Veget Sex Aspiri Total Calciu Dieta Vitam Vitam Meat Veget Sex Aspiri Total Calciu Dieta Vitam Vitam Meat Veget Sex Aspiri Other Sex Aspiri Total Satur: Total Satur: Total Set Sex Aspiri Other Sex Aspiri Other Sex Aspiri Other Sex Aspiri Other Sex Aspiri Other Sex Aspiri Other Sex Aspiri Total Satur: Satur: Satur: Total Satur: Total Satur: S		Smoking, saturated fat, dietary fiber Physical activity, total energy, saturated fat, vegetables and fruits
Age Saturi Total Saturi Total Saturi Vitam Vitam Vitam Vitam Neat Sex Aspiri Sex Aspiri Sex Aspiri Total Saturi Total Calciu Dieta Vitam Meat Vitam Meat Vitam Meat Vitam Meat Vitam Meat Saturi Total Calciu Dieta Sinok Physic Smok Physic Smok Physic Smok Physic Smok Physic Smok Physic Smok Physic Smok Physic Smok Physic Smok Physic Smok Physic Smok Physic Smok Physic Smok Physic Calciu Dieta Vitam Neat Vitam Vitam Vitam Neat Vitam Neat Vitam Vitam Neat Vitam Vitam Neat Vitam Vitam Neat Vitam Ne	noking	Aspirin, physical activity, saturated fat, meat, total energy
Application Applicati	nysical activity	Total energy, saturated fat, dietary fiber, vegetables and fruits
A-catenin 4 (a) catenin 4 (b) catenin 4 (b) 		Total fat, meat, total energy
I-catenin I-catenin I-catenin Age Sex Aspiri Other Simok Physic BMI Total Sature Calciu Physic BMI Total Calciu Dieta Sex Aspiri Other Sex Aspiri Total Calciu Dieta Sex Aspiri Other Sex Aspirition Aspirition Aspirition Sex Aspirition Sex Aspirition Sex Aspirition Aspirition Aspirition Aspirition Sex Aspirition Sex Aspirition Aspirition Sex Aspirition<	otal energy Iturated fat	Saturated fat, calcium, dietary fiber, meat Total energy, meat
Age I-catenin Age Sex Aspiri Total Statur Total Situr Total Situr Calciu Distant Vitam Meat Meat Meat	otal fat	BMI, total energy, vitamin E, meat
 Dieta Vitam Veget Veget Veget Sex Aspiri Other Smok Physis Saturi Total Calciu Dieta Vitam Veget Cadciu Dieta Vitam Veget Smok Physis Calciu Dieta Saturi Total Saturi Saturi	alciume	Total energy, saturated fat, vitamin D
Acatemin Vitam Meat Veget Sex Aspiri Other Smok Physis BMI Total Calciu Dietar Vitam V	etary fiber	Total energy, saturated fat, meat
 H-catenin Age Sex Sex Sex Sex Sex Sex Sex Physic Aspiri Other Situal Satur Vitam Vitam Vitam Vitam Vitam Vitam Vitam Vitam Vitam Vitam Vitam Vitam Vitam Vitam Vitam Satur Total Calciu Dieta Sex Aspiri Other Sex Aspiri Other Sex Aspiri Other Sex Aspiri Other Sex Aspiri Other Sex Aspiri Total Satur Total Satur Total Satur Total Satur Total Satur Total Satur Total Satur Total Satur Total Satur Total Satur Total Satur Vitam Meat Vitam Vitam Meat Vitam Vitam Meat Satur Total Satur Neta Satur Total Satur Total Satur Total Satur Total Satur Total Satur Neta Satur Satur Total Satur Total Satur Total Satur Neta Satur Satur Neta Satur N	tamin D ^f	Total energy, calcium, meat, vegetables and fruits
Age Sex Age Sex Appini Other Smok Physis BMI Total Satur. Total Satur. Vitam Meat Vitam Satur. Total Satur. Nether Smok Physis BMI Total Satur. Nether Smok Physis BMI Total Satur. Nether Smok Physis BMI Total Satur. Total Satur. Total Satur. Total Satur. Total Satur. Total Calciu Dieta Vitam Meat Vage Sex Aspiri Total Satur. Satur. S	tamin E	Aspirin, smoking, total energy, total fat, dietary fiber, meat, vegetables and fruits
I-catenin Age Sex Aspiri Other Smok Smok Smok Physic BMI Total Calciu Dieta Vitam Vita		Total energy, saturated fat
 Sex Aspiri Other Smok BMI Total Satur: Total Calciu Dieta Satur: Satur: Total Sex Aspiri Other Sex Aspiri Total Sex Aspiri Total Satur: Total Satur: Total Satur: Total Satur: Total Calciu Dieta Satur: Total Calciu Dieta Satur: Total Calciu Dieta Satur: Total Calciu Dieta Satur: Total Satur: Total Calciu Dieta Satur: Total Satur: Total Calciu Dieta Satur: Total Satur: Satur: Total Satur: Total Satur: Total Satur: Total 		Physical activity, total energy, saturated fat, calcium, fiber, meat Smoking, saturated fat, total energy, calcium
Application of the set of the		Vitamin E, BMI, saturated fat, meat, total energy
Aspiri Total Satur. Total Satur. Total Satur. Total Calciu Dieta Vitam Meat Veget Sex Aspiri Other Smok Net Satur. Total Calciu Dieta Satur. Total Calciu Dieta Satur. Total Satur. Total Satur. Total Calciu Dieta Satur. Total Satur. Total Calciu Dieta Satur. Total Calciu Dieta Satur. Total Calciu Dieta Satur. Total Calciu Dieta Satur. Total Calciu Dieta Satur. Total Calciu Dieta Satur. Total Satur. Total Calciu Dieta Satur. Total Calciu Dieta Satur. Total Calciu Dieta Satur. Total Calciu Dieta Satur. Total Calciu Dieta Satur. Total Calciu Dieta Satur. Total Calciu Dieta Satur. Total Calciu Dieta Satur. Total Satur. Satur. Total Satur. Satur. Total Satur. Satur. Satur. Total Satur. Satur	spirin	Smoking, calcium, saturated fat, dietary fiber
Aspirit rotal Satur Vitam Vitam Vitam Vitam Vitam Vitam Vitam Vitam Vitam Vitam Vitam Vitam Vitam Other Smok Physis BMI Total Satur Vitam Neat Satur Total	ther NSAID	Physical activity, BMI, saturated fat, meat, total energy
 BMI Total Satur: Total Satur: Total Satur: Total Satur: Vitam Meat Sex Aspiri Sinok Physic Smok Physic Sex Aspiri Total Calciu BMI Total Satur: Total Calciu Dieta Satur: Total Satur: Total Calciu Dieta Satur: Total Smok Physic BMI Total Satur: Total Satur: Total Satur: Total Satur: Total 	noking	Vitamin E, physical activity, total energy
Application of the second	nysical activity	Vitamin E, smoking, BMI, total fat, meat, total energy Physical activity, total fat, total energy
Aspirition of the second s	vii otal energy	Saturated fat, vitamin E, calcium, meat
Application of the second	iturated fat	Physical activity, dietary fiber, meat total energy
Vitam Vitam Vitam Vitam Vitam Vitam Vitam Neat Sex Aspiri Other Total Satur; Total Satur; Total Calciu Dieta Vitam Neat Vitam Neat Vitam Neat Vitam Neat Vitam Neat Vitam Neat Vitam Neat Vitam Neat Vitam Neat Vitam Neat Vitam Neat Vitam Neat Vitam Neat Vitam Neat Vitam Neat Vitam Neat Vitam Neat Vitam Neat Vitam Neat Satur; Total Calciu Dieta Satur; Total Calciu Dieta Satur; Total Satur; Nitam Neat Vitam Neat Satur; Total Satur; Total Satur; Total Satur; Total Satur; Total Satur; Total Satur; Nitam Neat Vitam Neat Satur; Total Satur; Total Satur; Nitam Neat Satur; Total Satur; Total Satur; Nitam Neat Satur; Nitam Neat Nitam	otal fat	Vitamin E, meat, total energy
Vitam Meat Veget Secadherin Age Sex Aspiri Other Smok Physis Utal Statur, Total Calciu Dieta Statur, Total Stat	alcium	Saturated fat, total energy, vegetables and fruits
Vitam Meat Vieget Sex Aspiri Other Smok Physic Saturation of the Sex Aspiri Other Smok Physic Saturation of the Sex Aspiri Other Smok Physic Saturation of the Sex Aspiri Other Smok Physic Dieta Saturation Other Smok Physic Sex Aspiri Other Smok Physic BMI Total Saturation Other Smok Physic Sex Aspiri Other Smok Physic Sex Aspiri Other Smok Physic Sex Aspiri Other Smok Physic Saturation Dieta Vitam Meat Vitam Meat Vitam Meat Vitam Meat Vitam Meat Saturation Dieta Saturation Die	etary fiber	Saturated fat, calcium, vitamin D, meat, vegetables and fruits, total energy
Age Sex Aspiri Other Sex Physic Physic Physic Physic BMI Total Satur: Total Calciu Dieta Vitam Vitam Vitam Vitam Vitam Vitam Vitam Vitam Vitam Vitam Vitam Vitam Vitam Neat Veget Sex Aspiri Other Smok Physic BMI Total Satur: Total Satur: Total Sex Aspiri Other Smok Physic BMI Total Satur: Total Sex Aspiri Other Sex Aspiri Other Sex Aspiri Other Sex Aspiri Total Satur: Satur: Total Satur: Satur: Satur: Total Satur: S	tamin D tamin E	Saturated fat, total energy, calcium Total fat, meat, total energy
Veget Age Sex Aspiri Other Smok Physia BMI Total Satur. Total Calciu Dieta Vitam Meat Vitam Meat Aspiri Other Smok Physia BMI Total Satur. Total Satur. Vitam Meat Vitam Meat Vitam Meat Satur. Smok Physia BMI Total Satur. Total Satur. Vitam Meat Vitam Vitam V		Total energy, physical activity, total fat
Cadherin Age Sex Aspiri Other Smok BMI Total Saturi Total Saturi Vitam Meat Vitam Meat Vitam Meat Vitam Meat Vitam Meat Vitam Meat Vitam Meat Vitam Meat Vitam Meat Vitam Meat Saturi Total Calciu Dieta Saturi Total Calciu Dieta Saturi Total Saturi		Total energy, vitamin E, physical activity, saturated fat, dietary fiber, meat
Aspiri Other Smok Physis Satur; Total Satur; Total Calciu Vitam Meat Veget XSH2 Aspiri Other Smok Physis BMI Total Satur; Total Calciu Dieta Satur; Total Calciu Dieta Satur; Total Satur; Total Satur; Total Satur; Total Satur; Total Calciu Dieta Sex Aspiri Other Sex Aspiri Other Sex Sex Aspiri Other Sex Sex Aspiri Other Sex Satur; Total Calciu Dieta Satur; Total Calciu Dieta Satur; Total Satur; S	ge	Physical activity, total fat, calcium, vegetables and fruits, total energy
ASH2/mib-1 ⁴ AGH2/mib-1 ⁴ AGH2/mib-1 ⁴ AGH2/mib-1 ⁴ AGH2/mib-1 ⁴ Age Age Age Age Age Age Age Age		Age, physical activity
Smok Physia BMI Total Satur. Total Vitam Meat Aspiri Other Smok Smok Physia BMI Total Satur. Total Satur. Vitam Weat Vitam Vitam Meat Vitam Vitam Meat Vitam Meat Vitam Vitam Meat Vitam Vitam Meat Vitam Vitam Meat Vitam Vitam Meat Vitam Vitam Meat Vitam Vitam Meat Vitam Vitam Meat Vitam Vitam Meat Vitam Vitam Meat Vitam Vitam Meat Vitam	spirin ther NSAID	Physical activity, total energy, calcium, vitamin D, meat, vegetables and fruits Physical activity, saturated fat, total energy, vitamin D, meat, vegetables and fruits
 Physic BMI Total Saturi Vitam Vitam Vitam Vitam Vitam Vitam Vitam Saturi Total Saturi Total Saturi Total Saturi Total Saturi Vitam Meat Vitam Vitam Meat Saturi Total Saturi Saturi Total Saturi 		Physical activity, saturated rat, total energy, vitamin D, meat, vegetables and muts
Vitam Meat Vitam Vitam Vitam Vitam Vitam Vitam Vitam Vitam Vitam Satur, Total Age Sex VISH2 Aspiri Other Smok Physis BMI Total Calciu Dieta Vitam Weat VepC/β-catentia Age Sex Aspiri College Sex Aspiri College Sex Vitam Meat Vitam Meat Vitam Meat Vitam Satur, Total Calciu Dietaa Vitam Meat Vitam Meat<	nysical activity	Age, saturated fat, vegetables and fruits, total energy
Sturr Total Calciu Dietan Witam Witam Weat Vitam Vitam Vitam Vitam Sex Aspiri Total Sex Aspiri Other Smok Physis BMI Total Sex Aspiri Other Smok Physis Sex Aspiri Other Sex Aspiri Other Sex Aspiri Total Calciu Dietan Sex Aspiri Other Sex Aspiri Other Sex Aspiri Other Sex Aspiri Other Sex Sex Aspiri Other Sex Sex Aspiri Other Smok Physis BMI Total Calciu Dietan Satur- Total Calciu Dietan Sex Aspiri Other Smok Physis BMI Total Satur- Sex Aspiri Other Sex Sex Aspiri Other Smok Physis Satur- Total Calciu Dietan Satur- Total Calciu Dietan Satur- Total Satur- Total Satur- Total Sex Sex Total Sex Sex Total Total Sex Sex Total Sex Sex Total Total Sex Sex Sex Total Sex Sex Total Sex Sex Total Sex Sex Sex Total Sex Sex Sex Sex Sex Sex Sex Sex		Physical activity, saturated fat, total energy, vitamin D, meat, vegetables and fruits
Vitam Meat Aspiri Othera Sex Aspiri Other Smok Physia BMI Total Satur. Total Calciu Dieta Vitam Satur. Total Satur. Total Nita Vitam Meat Vitam Vitam Meat Vitam Vitam Meat Vitam Vitam Meat Vitam Vitam Meat Vitam Vitam Meat Vitam Meat Vitam Vitam Meat Vitam Meat Vitam Meat Vitam Meat Vitam Vitam Meat Vitam Vitam Meat Vitam Vitam Meat Vitam Vitam Meat Vitam Vita	otal energy	Calcium, vitamin D, vegetables and fruits, total energy
Calciu Meat Vitam Vitam Vitam Vitam Vitam Vitam Vitam Sex Aspiri Total Satur: Total Satur: Total Satur: Vitam Vitam Vitam Vitam Vitam Meat Vitam Vitam Meat Vitam Vitam Meat Vitam Vitam Meat Vitam Vitam Vitam Vitam Vitam Meat Vitam Vitam Vitam Meat Vitam Vitam Meat Vitam Vitam Meat Vitam Vitam Meat Vitam Vitam Meat Sex Aspiri Other Satur: Total Satur: Total Satur: Total Satur: Total Satur: Total Satur: Total Satur: Total Satur: Total Vitam Meat Vitam Meat Vitam Meat Vitam Meat Vitam Meat Vitam Meat Vitam Meat Vitam Meat Vitam Meat Vitam Meat Vitam Meat Vitam Notal Satur: Total	iturated fat	Physical activity, calcium, vitamin D, vegetables and fruits, total energy
Vitam Vitam Meat Aspiri Other Smok Sex Aspiri Other Smok BMI Total Saturi Vitam Vitam Vitam Vitam Vitam KPC/β-cateni Sex Aspiri Other Sex Aspiri Vitam Vitam Vitam Vitam Vitam Vitam Vitam Vitam Vitam Vitam Sex Aspiri Other Smok Physis BMI Total Saturi Vitam Vit		Vitamin E, vitamin D, vegetables and fruits, total energy Total energy, saturated fat, vitamin D, meat, vegetables and fruits, total energy
Vitam Meat Veget Sex Age Sex Aspiri Other Smok BMI Total Satur; Total Calciu Other Smok Physic NeC/β-catenin Age Sex Aspiri Other Smok Physic Utam Vitam Meat Veget Age Sex Aspiri Other Smok Physic BMI Total Satur; Vitam Meat Vitam Vitam Meat Sex Aspiri Other Smok Physic BMI Total Satur; Total	etary fiber	Age, physical activity, total energy, calcium, meat
Meat Veget Veget Aspiri Other Smok Physis BMI Total Satur: Total Calciu Dieta Vitam Weat Veget Veget Sex Aspiri Sex Aspiri Other Smok Physis BMI Total Satur: Total Total Satur: Total Total Satur: Total Total	tamin D	Calcium
Veget Vispet Age Sex Aspiri Other Smok Physis BMI Total Satur: Total Calciu Dietan Vitam Meat Vitam Vitam Vitam Vitam Sex Aspiri Other Smok Physis Satur: Total Satur: Total Calciu Dietan Satur: Total Total Satur: Total Satur: Total Satur: Total Satur: Total Satur: Total Satur: Total Satur: Total Satur: Total Satur: Total Satur: Total Satur: Total Satur: Total Satur: Total Satur: Total Satur: Total Satur: Total Total Satur: Total Satur: Total Satur: Total Satur: Total Satur: Total Satur: Total Satur: Total Satur: Total Satur: Total Satur: Total Satur: Total Total Satur: Total Satur: Total Satur: Total Satur: Total Satur: Total Satur: Total Satur: Total Satur: Total Satur: Total Satur: Satu	tamin E	Physical activity, total fat, vitamin D
VISH2 Age Sex Sex Aspiri Other Smok BMI Total Satur: Total Calciu Vitam Vitam Vitam Vitam Vitam Vitam Vitam Vitam Vitam Vitam Vitam Vitam Vitam Vitam Vitam Vitam Vitam Vitam Vitam Sex Aspiri Other Smok Vitam Vitam Vitam Satur: Total Total Total Satur: Satur:		Total energy, total fat, calcium, vitamin D, vegetables and fruits
Sex Aspiri Other Smok BMI Total Satur: Total Satur: Total Satur: Total Calciu Dieta Vitam Weat Vitam Vitam Meat Calciu Dieta Sex Aspiri Other Smok Physis Satur: Total		Total energy, physical activity, saturated fat Aspirin, other NSAID, calcium, meat, vegetables and fruits, total energy
 Other Smok BMI Total Satur, Total Calciu Dietan Vitam Vitam Vitam Vitam Veget Sex Appr/β-catenic Age Satur, Total Calciu Dietan Vitam Meat Vitam Vitam Vitam Calciu Dietan Vitam Vitam Meat Vitam Calciu Dietan Vitam Meat Vitam Meat Vitam Meat Vitam Meat Vitam Meat Satur, Total Satur, 		Vitamin E, aspirin, physical activity, calcium
Smok Physis BMI Total Satur: Total Vitam Meat Vitam Meat Appr/β-catenin ⁶ Age Sex Aspiri Other Smok BMI Total Satur: Total Satur: Vitam Vitam Vitam Vitam Vitam Satur: Total Sex Aspiri Other Smok BMI Total Sex Aspiri Total Sex Aspiri Total Satur: Total Satur: Total Satur: Total Satur: Total Total Total	spirin	Calcium
 Physics BMI Total Saturi Total Calciu Dietai Vitam Vitam Vitam Vitam KPC/β-cateni Age Sex Aspiri Total Calciu Dietai Vitam Sex Aspiri Other Simok Physic BMI Total Saturi 	ther NSAID	Age, BMI, total energy, meat, vegetables and fruits
BMI Total Satur; Total Calciu Dieta Witam Meat Veget App(β-catenin Sex Aspiri Other Smok Physis BMI Total Satur; Total Vitam Meat Vitam Meat Vitam Meat Aspiri Other Satur; Total Satur; Total Satur; Total Satur; Total Satur; Total Satur; Total Satur; Total Total	noking	Age, aspirin, physical activity, total energy, calcium, dietary fiber, meat
Total Satur; Total Calciu Vitam Meat Veget APC/β-catenin ⁶ Age Sex Aspiri Other Smok BMI Total Satur; Total Satur; Vitam Weat Calciu Dieta Satur; Vitam Vitam Vitam Vitam Satur; Total Satur; Total Satur; Total Satur; Total Satur; Total Satur; Total Satur; Total Satur; Total Satur; Total Satur; Total Satur; Total Satur; Total Satur; Total Satur; Total Satur; Total Satur; Total Satur; Total Total Satur; Total Satur; Total Satur; Total Satur; Total Satur; Total Satur; Total Satur; Total Satur; Total Satur; Total Satur; Total Satur; Total Satur; Total Satur; Total Total Satur; Total Total Total Total Total Satur; Total	nysical activity	Other NSAID, saturated fat, BMI, total energy, dietary fiber, meat, vegetables and fruits
Satur: Total Calciu Dietan Witam Weat Vitam Meat Veget Sex Aspiri Other Smok Physis BMI Total Satur: Total Vitam Meat Vitam Meat Aspiri Other Smok Aspiri Other Smok Physis Satur: Total Satur: Total Satur: Total Total	vii otal energy	Other NSAID, aspirin, saturated fat, total energy Other NSAID, saturated fat, calcium, vitamin D, meat
Total Calciu Dietar Vitam Meat Veget Veget APC/β-catenin ⁶ Age Sex Aspiri Other Dieta Satur Total Satur Vitam Weat Vitam Vitam Vitam Kest Sex Aspiri Other Sex Aspiri Other Sex Sex Aspiri Total Satur Total Satur Total Satur Total Satur Total Total	iturated fat	Vitamin E, age, total energy, dietary fiber, meat, vegetables and fruits
VPC/β-catenin ⁶ Vitam Meat Age Sex Aspiri Other Smok Physis BMI Total Satur. Vitam Vitam Meat Viget Aspiri Sex Aspiri Other Sex Aspiri Total Satur. Sex Aspiri Total Satur. Total Satur. Total Sex Aspiri Total Satur. Total	otal fat	Vitamin E, total energy, BMI, calcium, dietary fiber, meat
Vitam Vitam Meat Veget APC/β-catenin ⁶ Age Sex Aspiri Other Smok BMI Total Satur: Total Satur: Vitam Vitam Vitam Vitam Vitam Vitam Ses Aspiri Other Ses Ses Ses Smok BMI Total Satur: Total Satur: Total Ses Ses Total		Total energy, vitamin D
Vitam Meat Veget Sex Aspiri Other Smok Physis BMI Total Satur. Total Vitam Meat Vitam Meat Aspiri Other Sex Aspiri Other Smok Physis Satur. Total Satur. Total Satur. Total Satur. Total Satur. Total Satur. Total Total	etary fiber	Aspirin, totla energy, saturated fat, calcium, vitamin D, vegetables and fruits
Meat Veget APC/β-catenin ⁶ Age Sex Aspiri Other Smok BMI Total Satur; Total Satur; Vitam Vitam Vitam Vitam Vitam Vitam Sex Aspiri Other Sex Sex Sex Sex Smok Physis BMI Total Satur; Total Satur; Total Satur; Total Total Total		Total energy, calcium Total energy, calcium, vitamin D, dietary fiber, meat, vegetables and fruits
Veget Age Age Appri/β-catenin Sex Aspiri Other Smok Physis BMI Total Calciu Dietar Vitam Meat Vitam Meat Aspiri Other Sex Sex Satur. Total Satur. Total Satur. Total Satur. Total Satur. Total Satur. Total Satur. Total Satur. Total Satur. Total Satur. Total		Total energy, physical activity, saturated fat, calcium, vegetables and fruits
Sex Aspiri Other Smok BMI Total Satur: Total Satur: Total Calciu Dieta Vitam Vitam Weat Vitam Vitam Veget Sex Aspiri Other Sex Aspiri Other Sex Aspiri Other Sex Aspiri Total Satur: Total Satur: Total Total		Total energy, saturated fat, vitamin D, dietary fiber, meat
Aspiri Other Smok BMI Total Satur: Total Calciu Dieta Vitam Meat Vitam Meat Aspiri Other Sex Aspiri Other Smok BMI Total Satur: Total Satur: Total Total Total Total Total Total Total Total Total Total Total Total Total	ge	Aspirin, smoking, saturated fat, dietary fiber, calcium
Uther Smok BMI Total Satur; Total Satur; Utam Vitam Vitam Vitam Vitam Vitam Vitam Vitam Vitam Sex Aspiri Other Sex Sex Sex Aspiri Other Smok Physis BMI Total Satur; Total		Fiber, vitamin E, BMI, saturated fat, meat, total energy
Smok Physic BMI Total Satur. Total Uitam Weat Vitam Meat Vitam Meat Vitam Meat Sex Aspiri Other Smok Physic BMI Total Satur. Total		Smoking, calcium, saturated fat, dietary fiber
Physis BMI Total Satur, Total Calciu Dieta Vitam Vitam Vitam Vitam Vitam Vitam Sex Aspir Other Smok Physis BMI Total Satur, Total	ther NSAID	Physical activity, BMI, total energy, saturated fat, vegetables and fruits Aspirin, vitamin E, physical activity, saturated fat, meat, total energy
BMI Total Satur: Total Calciu Dieta Vitam Vitam Veget VsH2/mib-1 ⁴ Age Aspiri Other Sex Aspiri Other Smok Physis BMI Total Satur: Total	noking nysical activity	Total energy, meat, smoking, vitamin E, saturated fat, dietary fiber, vegetables and fruits
Satur, Total Calciu Dietau Witam Meat Veget ASH2/mib-1 ⁴ Age Sex Aspiri Other Smok Physis BMI Total Satur, Total		Total fat, physical activity, meat, total energy
Total Calciu Dietar Vitam Meat Vsget Vsget Vsget Sex Aspiri Other Smok Physic BMI Total Satur Total	otal energy	Saturated fat, vitamin E, calcium, dietary fiber, meat
Calciu Dietan Vitam Vitam Veget ASH2/mib-1 ⁴ Age Sex Aspiri Other Smok Physis BMI Total Satur. Total	iturated fat	Total energy, vitamin E, meat
Dietai Vitam Meat Vseget Vseget Sex Aspiri Other Smok Physic BMI Total Satur. Total		BMI, total energy, vitamin E, meat
Vitam Vitam Veget VSH2/mib-1 ⁴ Age Sex Aspiri Other Smok Physis BMI Total Satur: Total	alcium ietary fiber	Total energy, vegetables and fruits, saturated fat, vitamin D Saturated fat, calcium, vitamin D, meat, vegetables and fruits, total energy
Vitam Meat Vsget Vsget ASH2/mib-1 ⁴ Age Sex Aspiri Other Smok Physia BMI Total Saturi Total	tamin D	Total energy, saturated fat, calcium, meat, vegetables and fruits, total energy
Veget ASH2/mib-1 ⁴ Age Sex Aspiri Other Smok BMI Total Satur; Total	tamin E	Aspirin, smoking, total energy, total fat, dietary fiber, meat, vegetables and fruits
VSH2/mib-1 ⁴ Age Sex Aspiri Other Smok Physic BMI Total Satur: Total	eat	Total energy, physical activity, saturated fat
Sex Aspiri Other Smok Physic BMI Total Saturi Total		Physical activity, vitamin E, total energy, saturated fat, calcium, dietary fiber, meat
Aspiri Other Smok Physi BMI Total Satur: Total		Aspirin, other NSAID, calcium, meat, vegetables and fruits, total energy Vitamin E, aspirin, physical activity, calcium
Other Smok Physic BMI Total Satura Total		Calcium
Smok Physic BMI Total Satura Total	ther NSAID	Age, BMI, total energy, meat, vegetables and fruits
BMI Total Satura Total	noking	Age, aspirin, physical activity, total energy, calcium, dietary fiber, meat
Total Satura Total	nysical activity	Other NSAID, saturated fat, BMI, total energy, dietary fiber, meat, vegetables and fruits
Satura Total		Other NSAID, aspirin, saturated fat, total energy
Total	otal energy iturated fat	Other NSAID, saturated fat, calcium, vitamin D, meat Vitamin E, age, total energy, dietary fiber, meat, vegetables and fruits
	iturated fat otal fat	Vitamin E, age, total energy, dietary fiber, meat, vegetables and truits Vitamin E, total energy, BMI, calcium, dietary fiber, meat
	alcium	Total energy, vitamin D
	ietary fiber	Aspirin, totla energy, saturated fat, calcium, vitamin D, vegetables and fruits
Vitam	tamin D	Total energy, calcium
	tamin E	Total energy, calcium, vitamin D, dietary fiber, meat, vegetables and fruits
Meat		Total energy, physical activity, saturated fat, calcium, vegetables and fruits
		Total energy, saturated fat, vitamin D, dietary fiber, meat
Models also included :		ti-inflammatory drug; BMI, body mass index.
		stochemistry with image analysis.
APC expression divide		
APC expression divide MSH2 expression divid	ided by A-catonic	

	34 2.502 (2.148, 2.856) . 35 2.276 (2.224, 2.283) .1.6 0.88 46 2.747 (2.106, 2.008) .1.6 0.88 46 2.748 (2.224, 2.283) .1.9 0.15 40 2.445 (2.287, 2.904) .1.9 0.15 96 2.338 (2.293, 2.754) 1.4 0.87 97 2.518 (2.204, 2.893) .1.9 0.37 38 2.245 (2.204, 2.893) .1.4 0.87 39 2.451 (2.047, 2.907) .1 .1.8 39 2.452 (2.204, 2.893) .1 .1.3 39 2.451 (2.047, 2.907) .1 .1.3 31 2.571 (2.207, 2.933) .1.5 .0.87 34 2.571 (2.207, 2.943) .1.5 .0.61 35 2.567 (2.218, 2.965) .1.5 .0.61 35 2.599 (2.144, 2.562) .2.17 .0.61	2502 (2,148, 2,858) - 2576 (2,224, 2,928) - 2577 (2,38, 2,089) - 2,388 (1,990, 2,668) - 2,388 (2,291, 2,209) - 0,35 2,388 (2,292, 2,209) - 0,35 2,388 (2,292, 2,229) - 0,35 2,488 (2,152, 2,224) - 0,87 2,459 (2,149, 2,212) -13.5 0,37 2,545 (2,204, 2,980) 4.0 2,37 2,545 (2,207, 2,880) 4.0 2,37 2,545 (2,207, 2,880) 4.0 2,37 2,547 (2,247, 5,31,49) - 2,37 2,547 (2,247, 5,31,49) - 2,36 2,547 (2,349, 2,562) -0,10 0,40 2,547 (2,349, 2,562) -0,10 0,41 2,548 (2,047, 2,249) -1,53 0,11 2,549 (2,150, 2,859) 0,11 0,24 2,549	lue mean (OD)	95% CI	difference ⁶ (%) P-value	-value	Lower 60% of crypts, mean (OD)	95% CI	difference ⁶ (%) P-value	P-valu
Bit Control Co		22767 (2224, 2223) 3.0 22477 (2238, 2089) -1.8 0.88 2174 (238, 3089) -1.9 0.15 2388 (1290, 2685) -1.3.9 0.15 2388 (2267, 2209) -4.7 0.58 2455 (2212, 2209) -4.7 0.87 2458 (2233, 2754) 1.4 0.87 2458 (2.190, 2880) 4.9 0.25 2455 (2.204, 2890) - 0.37 2545 (2.047, 2907) - 0.25 2545 (2.047, 2907) - 0.25 2547 (2.047, 2907) - 0.37 2548 (2.057, 2199) -15.1 0.89 2547 (2.247, 2382) 0.10 0.89 2547 (2.247, 2383) - 0.266 2547 (2.247, 2383) - 0.41 2546 (2.150, 2859) 0.5 0.61 2547 (2.150, 2859) - 0.25 <					1 389	(1 157 1 621)		
46 7 <th7< th=""> 7 7 7</th7<>		2,714 (2,38,2868) 2,714 (2,38,2868) 2,388 (1,990,2868) 2,455 (2,212,2708) 2,488 (2,39,2754) 1.4 0.87 2,488 (2,29,2754) 1.4 0.87 2,545 (2,204,2786) 0.37 2,545 (2,204,2830) 3.8 0.74 2,545 (2,204,2830) 3.8 0.74 2,545 (2,204,2830) 4.0 2.92 2,545 (2,204,2830) 4.0 2.92 2,545 (2,204,2830) 4.0 2.92 2,545 (2,204,2830) 4.0 2.92 2,547 (2,247,2330) 2.92 2,548 (2,047,2810) 2.92 2,546 (2,150,2843) 4.0 0.04 2,548 (2,047,2807) 0.04 2,549 (2,150,2850) -0.1 0.04 2,549 (2,150,2850) -0.51 0.95 2,549 (2,150,2850) -0.51<		(879, 1,201) (866, 1,186)		0.68	1,384	(1,153, 1,615)	-8.2	0.51
ID 6 2.01 2.01 2.00 2.01 2.01 2.01 2.01	40 4.4 2.586 2.221, 2.708 4.7 0.15 40 2.465 2.221, 2.708 4.7 0.35 96 2.483 (2.190, 2.665) 4.7 0.35 96 2.483 (2.190, 2.665) 4.7 0.35 96 2.523 (2.293, 2.754) 1.4 0.87 98 2.425 (2.204, 2.880) 4.9 3.8 0.74 38 2.545 (2.204, 2.880) 4.9 3.8 0.74 21 2.417 (2.192, 2.283) 4.0 3.8 0.74 22 2.477 (2.047, 2.907) - - - 34 2.813 (2.476, 3.149) - - - 35 2.571 (2.238, 2.905) - - - 35 2.567 (2.207, 2.938) - - - 36 2.5271 (2.195, 2.849) - - - - 35 2.567 (2.191, 2.869) <	2,174 (2,195), 2,268,5 2,285 (2,20, 2,208) 0,15 2,286 (2,21, 2,708) 0,28 2,488 (2,23, 2,754) 1.4 0,87 2,582 (2,20, 2,726) 0,37 2,595 (2,20, 2,726) 0,37 2,595 (2,20, 2,282) 1.3.5 0,37 2,595 (2,20, 2,283) 3.8 0,74 2,595 (2,20, 2,282) 1.1 0,89 2,595 (2,20, 2,283) 4.0 0,89 2,595 (2,20, 2,283) 4.0 0,89 2,595 (2,20, 2,283) - 0,26 2,595 (2,20, 2,283) - 0,26 2,595 (2,215, 2,283) - 0,26 2,595 (2,24, 2,305) - 0,26 2,596 (2,150, 2,283) 0,17 0,24 2,596 (2,150, 2,283) 0,17 0,24 2,596 (2,150, 2,283) 0,16		1000 1 040			700	1 1001 1 1001		
64 2.56 2.257, 2.204 1.07 (403, 1.22) (47) (43) (47) (43) (47) (43) (47) (43) (47) (43) (47) (43) (47) (43) (47) (43) (47) (48) (47)	64 2.586 (2.267, 2.904) - 69 2.465 (2.21, 2.788) 4.7 0.58 96 2.523 (2.23, 2.754) 1.4 0.87 96 2.523 (2.248, 2.152, 2.824) - 0.87 96 2.538 (2.349, 2.756) - 0.37 38 2.545 (2.204, 2.880) 4.9 - 38 2.545 (2.204, 2.880) 4.0 - 39 2.457 (2.047, 2.907) - - 39 2.451 (2.199, 2.782) 0.10 0.89 34 2.545 (2.204, 2.880) 4.0 - 35 2.461 (2.199, 2.880) - - 34 2.6267 (2.238, 2.906) - - 35 2.511 (2.162, 2.843) - - 36 2.5267 (2.238, 2.906) - - 35 2.5051 (2.142, 2.843) - - 36 2.526	2,386 (2,267, 2,208) - 2,488 (2,212, 2,708) - 2,428 (2,152, 2,224) - 2,523 (2,293, 2,754) 1.4 0.87 2,528 (2,204, 2,205) - - 2,425 (2,205, 2,283) 4.3 0.37 2,545 (2,206, 2,383) 4.0 - 2,545 (2,047, 2,907) - - 2,547 (2,047, 2,907) - - 2,547 (2,047, 2,907) - - 2,547 (2,047, 2,907) - - 2,547 (2,047, 2,907) - - 2,547 (2,047, 2,907) - - 2,547 (2,342, 2,905) - - 2,547 (2,342, 2,526) - - 2,548 (2,047, 2,243) 0.47 0.93 2,549 (2,150, 2,859) - - 2,549 (2,150, 2,859) - - 2,549 (2,150, 2,859)		(810, 1,122)		0.36	1,231	(1,026, 1,437)	-17.0	0.10
ID 40 5.66 5.296 4.7 0.83 607.7 608.1,100 1.395 40 5.6 5.232.5,230 0.77 608.1,100 1.395 40 5.6 5.232.5,230 0.77 608.1,100 1.395 41 5.7 5.7 5.7 5.7 6.7 608.1,100 1.395 30 5.245 5.205.2,230 6.7 6.02 6.9 1.395 31 5.245 5.205.2,230 6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7 7.7 <th7.7< th=""> 7.7 <th7.7< th=""> 7.</th7.7<></th7.7<>	64 2.565 (2.27, 2.904) - 30 2.465 (2.21, 2.708) - 0.55 36 2.488 (2.152, 2.824) - 0.87 36 2.538 (2.29, 2.726) - 0.87 30 2.425 (2.29, 2.726) - 0.87 30 2.425 (2.06, 2.830) 4.9 0.74 30 2.425 (2.206, 2.890) - - 30 2.425 (2.206, 2.890) - - 31 2.575 (2.206, 2.890) - - 32 2.461 (2.192, 7.269) - - 34 2.575 (2.206, 2.890) - - 35 2.461 (2.197, 2.910) - - 34 2.567 (2.335, 2.939) - - 35 2.667 (2.335, 2.930) - - 35 2.596 (2.152, 2.879) - - 35 2.506 (2.152,	2,256 (2,267, 2,260) - 2,465 (2,211, 2,768) - 0,58 2,488 (2,122, 2,234) 1.4 0,87 2,523 (2,249, 2,254) 1.4 0,87 2,524 (2,249, 2,254) - 2,245 2,5245 (2,204, 2,286) - 2,245 2,5245 (2,207, 2,280) - 2,247 2,475 (2,207, 2,280) - 2,247 2,475 (2,207, 2,280) - 0,38 2,475 (2,207, 2,290) - 0,38 2,475 (2,207, 2,290) - 0,38 2,475 (2,207, 2,293) - 0,38 2,575 (2,207, 2,293) - 0,38 2,567 (2,349, 2,523) - 0,41 2,567 (2,349, 2,523) 0,17 0,52 2,567 (2,135, 2,326) - 1,51 2,567 (2,145, 2,3267) - 1,52 2,567 (2,145, 3,267) - 1,					ļ			
ID 40 2,465 (2,21,2,708) 4,7 0,36 977 (966, 1,06) 5,4 0,30 1,34 50 2,488 (2,315, 2,324) 1,4 0,37 (966, 1,06) 5,4 0,31 1,345 50 2,358 (2,315, 2,324) 1,4 0,37 (962, 1,92) 9,5 0,31 1,324 50 2,358 (2,30, 2,329) 1,5 0,7 (962, 1,92) 1,5 0,31 1,324 51 2,358 (2,30, 2,329) 1,5 0,37 1,022 (963, 1,16) 1,5 1,324 52 2,358 (2,30, 2,329) 1,5 0,39 1,325 1,325 1,326 <	40 2,465 (2,211,2708) 4,7 0.55 96 2,488 (2,152,2,824) 1.4 0.87 96 2,523 (2,29,2,754) 1.4 0.87 96 2,523 (2,29,2,754) 1.4 0.87 97 2,513 (2,29,2,754) 1.4 0.87 98 2,545 (2,204,2,880) 4.9 3.8 0.74 98 2,545 (2,207,2,907) - 4.9 3.8 0.74 98 2,545 (2,207,2,802) 0.1 0.89 3.8 0.74 94 2,813 (2,476,3,1.49) - 3.5 2,571 (2,139,2,298) - 95 2,5251 (2,239,2,928) - 3.5 2,567 1,33 0.17 94 2,567 (2,239,2,928) - - - - - 95 2,567 (2,149,2,888) - - - - - - - - -	2,45 (2,221, 2,708) 4,7 0,58 2,488 (2,152, 2,824) - 0,87 2,588 (2,239, 2,754) 1,4 0,87 2,545 (2,209, 2,756) - 0,37 2,545 (2,209, 2,756) - 0,37 2,545 (2,206, 2,830) 3,8 0,74 2,545 (2,206, 2,830) 3,8 0,74 2,545 (2,206, 2,830) - 2,247 2,545 (2,206, 2,830) - 2,247 2,547 (2,207, 2,282) 0,1 0,89 2,547 (2,207, 2,283) - 2,247 2,548 (2,047, 2,349) - 2,249 2,549 (2,150, 2,283) - 2,249 2,540 (2,150, 2,283) - 2,249 2,540 (2,150, 2,859) - 2,17 2,544 (2,150, 2,859) - 2,16 2,545 (2,150, 2,859) - 2,15 2,546 (2,150, 2,859) <t< td=""><td>1,078</td><td>(933, 1,223)</td><td></td><td></td><td>1,350</td><td>(1,141, 1,560)</td><td></td><td></td></t<>	1,078	(933, 1,223)			1,350	(1,141, 1,560)		
Ib Ib<	Intrace, tertiles 2448 35 2.488 2.523 (2.152, 2.82.4) 2.523 1.4 0.87 96 2.538 (2.349, 2.756) 1.4 0.87 98 2.545 (2.04, 2.826) 1.4 0.87 38 2.545 (2.04, 2.836) 3.8 0.74 27 2.518 (2.204, 2.860) 4.0 3.8 39 2.451 (2.199, 2.762) 1.5.3 0.37 39 2.451 (2.190, 2.880) 4.0 3.8 0.74 39 2.451 (2.199, 2.762) 1.6.3 0.08 3.5 2.571 (2.238, 2.905) 4.0 0.89 34 2.838 (2.057, 2.793) 1.1 0.08 3.5 2.571 (2.238, 2.905) 4.1 0.06 34 2.602 (2.194, 2.843) 1.9 0.11 0.04 3.5 2.599 2.13 0.04 0.17 35 2.505 (2.142, 2.843) 0.5 0.61 1.9 0.5 0.61 35	2.488 (2.152, 2.824) - 0.87 2.523 (2.293, 2.754) 1.4 0.87 2.538 (2.349, 2.725) - 3.3 2.445 (2.051, 2.798) - 3.7 2.545 (2.047, 2.807) - 2.47 2.547 (2.047, 2.807) - 2.47 2.477 (2.149, 2.802) 0.10 0.89 2.545 (2.017, 2.807) - 2.41 2.471 (2.192, 2.803) 0.10 0.89 2.441 (2.017, 2.905) 5.1 0.08 2.545 (2.017, 2.905) 5.1 0.08 2.546 (2.191, 2.285) 0.17 0.24 2.567 (2.152, 2.819) 0.5 0.51 2.568 (2.152, 2.819) 0.5 0.51 2.595 (2.152, 2.819) 0.17 0.25 2.596 (2.152, 2.819) 0.51 0.51 2.596 (2.152, 2.819) 0.51 0.51 2.596 (2.152, 2.81) </td <td></td> <td>(866, 1,088)</td> <td></td> <td>0.30</td> <td>1,346</td> <td>(1,186, 1,506)</td> <td>-0.3</td> <td>0.98</td>		(866, 1,088)		0.30	1,346	(1,186, 1,506)	-0.3	0.98
35 2,358 2,359 1,4 0,57 1,63 (9,61,1,10) 1,1 1,30 (9,1,1,10) 1,1 1,30	95 2,538 (2,152, 2,754) 1.4 0.87 96 2,538 (2,29, 2,754) 1.4 0.87 96 2,538 (2,29, 2,754) 1.3.5 0.37 30 2,425 (2,20, 2,285) 4.9 2.77 30 2,425 (2,204, 2,907) - - 31 2,575 (2,204, 2,800) 4.0 - 32 2,427 (2,047, 2,907) - - - 34 2,575 (2,204, 2,800) - - - - 34 2,575 (2,207, 2,880) - <	2.448 (2.134, 2.224) - 2.528 (2.29, 2.754) - 2.528 (2.29, 2.754) - 2.528 (2.29, 2.754) - 2.528 (2.29, 2.754) - 2.425 (2.051, 2.798) - 2.545 (2.051, 2.798) - 2.545 (2.207, 2.800) 3.8 0.74 2.547 (2.207, 2.800) - - 2.547 (2.207, 2.800) - - 2.547 (2.207, 2.900) - 0.89 2.548 (2.057, 2.199) -15.1 0.08 2.557 (2.217, 2.990) - - 2.567 (2.342, 3.089) - - 2.567 (2.342, 2.890) - - 2.567 (2.347, 2.810) - - 2.567 (2.134, 2.861) - - 2.566 (2.191, 2.529) - - 2.566 (2.191, 2.5261) - - 2.566	000	1001 4 4001			200			
96 2.55 (2.39) 2.57 (1.22) (1.22) (1.23)	96 2.538 (2.49, 2.726) - 8 2.195 (1.480, 2.912) - - 30 2.425 (2.051, 2.789) - - 37 2.518 (2.206, 2.890) - - 39 2.461 (2.192, 7.269) - - 39 2.461 (2.197, 2.907) - - 39 2.461 (2.139, 2.782) 0.1 0.89 34 2.575 (2.207, 2.890) - - 35 2.338 (2.057, 2.719) -15.1 0.08 34 2.756 (2.204, 2.902) -0.1 0.04 34 2.756 (2.135, 2.993) - - 35 2.667 (1.335, 2.993) 2.5 - - 35 2.599 (2.156, 2.884) - - - 36 2.590 (2.156, 2.883) - - - 35 2.506 (2.152, 2.679) - - -	2,338 (2,349, 2,739) 2,196 (1,480, 2,212) 2,425 (2,051, 2,789) 2,425 (2,021, 2,280) 2,425 (2,207, 2,280) 2,427 (2,047, 2,290) 2,427 (2,047, 2,290) 2,4261 (2,139, 2,782) 0 2,2612 (2,247, 3,080) 2,262 (2,207, 2,293) 0 2,263 (1,248, 2,055) 0 2,2662 (1,218, 2,262) 0 2,267 (1,218, 2,263) 1 0 2,266 (1,215, 2,269) 0 2,267 (2,113, 2,261) 0 2,266 (2,113, 2,261) 0 2,267 (1,915, 2,279) 9.1 0 2,266 (2,192, 2,285, 3,094) <		(943, 1,152)		0.34	1,395	(1,172, 1,475)	-5.2	0.61
9 2338 (1,49, 2,270) 1,022 (41,11,42) 1,023 30 2,425 (2,49, 2,280) 1,022 (41,11,42) 1,023 21 2,425 (2,49, 2,280) 1,022 (41,11,42) 1,023 22 2,477 (2,49, 2,280) 1,012 (41,11,42) 1,012 31 2,426 (2,19, 2,280) 1,016 (90, 1,271) 1,012 34 2,426 (2,19, 2,280) 1,116 (90, 1,271) 1,446 35 2,426 (2,19, 2,280) 1,116 (90, 1,270) 1,446 36 2,426 (2,19, 2,280) 1,116 (90, 1,270) 1,446 36 2,426 (2,19, 2,280) 1,116 (90, 1,270) 1,442 36 2,427 (2,49, 2,428) 1,116 (90, 1,270)	8 2,245 (2,205,1,2786) - 30 2,445 (2,205,1,2786) - 30 2,455 (2,206,2,880) 3,8 0,74 27 2,545 (2,207,2,880) 4,9 - 39 2,451 (2,207,2,880) 4,9 - 39 2,451 (2,207,2,880) 4,9 - 39 2,461 (2,139,2,782) 0,1 0,89 34 2,833 (2,476,3,149) - - 35 2,325 (2,077,2,152) -5.1 0,08 34 2,575 (2,270,2,880) - - 35 2,325 (2,07,2,152) -5.1 0,08 34 2,571 (2,238,2,905) - - 35 2,667 (2,345,2,280) - - 35 2,567 (2,156,2,881) - - 35 2,504 (2,156,2,881) - - 36 2,525 (2,152,2,879)	2:538 (2):538 - 2:545 (2):542 - 2:545 (2):542 - 2:545 (2):542 - 2:545 (2):542 - 2:545 (2):542 - 2:545 (2):542 - 2:547 (2):392 - 2:548 (2):542 - 2:547 (2):392 - 2:345 (2):572 - 2:345 (2):572 - 2:348 (2):572 - - 2:567 (2):392 2:5 - 2:567 (2):392 2:5 - 2:567 (2):392 2:5 - 2:566 (2):192 2:545 - 2:567 (2):152 2:56 - 2:567 (2):152 2:56 - 2:568 (2):192 2:56 - 2:579 (2):152 2:56 - 2:576 (
30 2.2.5 (2.1.2.2.8) (2.2.5) (2.2	30 2,425 (2,051, 2,780) - 38 2,545 (2,204, 2,880) 4.9 37 2,518 (2,204, 2,880) 4.9 39 2,547 (2,204, 2,880) 4.9 39 2,547 (2,204, 2,880) 4.1 39 2,467 (2,190, 2,280) 4.1 39 2,467 (2,190, 2,280) - 34 2,813 (2,476, 3,149) - 35 2,267 (2,238, 2,905) - 34 2,813 (2,476, 2,281) - 35 2,267 (2,238, 2,905) - 34 2,567 (2,239, 2,981) - 35 2,593 (2,144, 2,562) - 36 2,595 (2,144, 2,884) - 35 2,595 (2,152, 2,883) - 35 2,595 (2,152, 2,873) - 35 2,595 (2,152, 2,873) - 35 2,595 (2,152, 2,873) -	2,425 (2,01,2,286) 2,545 (2,206,2,2830) 3.8 0,74 2,545 (2,206,2,2830) 3.8 0,74 2,545 (2,206,2,2830) 4.0 2,247 2,547 (2,206,2,2830) 4.0 2,247 2,447 (2,129,2,782) 0.1 0,89 2,447 (2,129,2,782) -15.1 0,08 2,848 (2,017,2,692) -5.7 0,211 2,848 (2,017,2,692) -5.7 0,201 2,849 (2,144,2,562) -20.1 0,04 2,547 (2,136,2,2810) - 2,245 2,548 (2,087,2,810) - 2,245 2,549 (2,156,2,828) -0.5 2,55 2,540 (2,156,2,828) -0.5 2,55 2,540 (2,150,2,828) -0.5 2,55 2,540 (2,150,2,828) -0.5 2,56 2,541 (2,150,2,828) -0.5 2,56 2,542 (2,245,2,3,267) <td< td=""><td>_</td><td>(943, 1,115) (529, 1,183)</td><td></td><td>032</td><td>1,358 1.226</td><td>(1,234, 1,482) (754, 1,698)</td><td>-9.7</td><td>0.60</td></td<>	_	(943, 1,115) (529, 1,183)		032	1,358 1.226	(1,234, 1,482) (754, 1,698)	-9.7	0.60
30 2,2,2 2,2,00 2,2,00 3,0 0,7,2 (41,1,12) 1,0 1,0 1,00	$ \begin{array}{llllllllllllllllllllllllllllllllllll$	2:445 (2:205, 2:286) 4.9 2:518 (2:206, 2:830) 3.8 0.74 2:517 (2:206, 2:830) 4.0 2.8 2:517 (2:206, 2:830) 4.0 2.8 2:517 (2:207, 2:802) 0.1 0.89 2:517 (2:207, 2:820) -15.1 0.08 2:518 (2:207, 2:820) -15.1 0.08 2:517 (2:2:82, 2:96) -3.2 2.017 0.04 2:517 (2:2:82, 2:96) -3.3 0.17 2.2 2:667 (2:3:5, 2:959) 2:5 0.2 2.2 2:519 (2:3:5, 2:859) -5.6 0.61 2:529 (2:1:5, 2:859) -0.7 0.95 2:595 (2:1:5, 2:859) -0.7 0.95 2:595 (2:1:5, 2:859) -0.51 0.51 2:595 (2:1:5, 2:859) -0.51 0.51 2:595 (2:1:5, 2:859) -0.51 0.52 2:595 (2:1:5, 2:859) -1.1.6 0.95 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
27 318 (2006, 2130) 31 (0.74) (1002 (660, 1/144) (1.1)	27 2,316 (2,206,7,2830) 3.8 0,74 22 2,477 (2,047,2,907) - - 39 2,2451 (2,190,7,2620) - - 39 2,2451 (2,190,2,782) 0,1 0,89 34 2,813 (2,47,3,200) - - 35 2,385 (2,017,2,692) -16.3 - 35 2,385 (2,017,2,692) -16.3 - 35 2,267 (2,238,2,908) - - 35 2,267 (2,328,2,908) - - 35 2,2667 (2,328,2,908) - - 36 2,2667 (2,328,2,998) - - 37 2,692 (2,194,2,884) -0.5 - 38 2,2667 (1,315,2,885) - - 35 2,509 (2,152,2,887) 0,15 - 35 2,5267 (1,315,2,883) 0,17 0,15 35 2	2,578 (7,206,2,293) 3.8 0.74 2,477 (2,207,2,807) 4.0 2.8 2,477 (2,207,2,807) 4.0 0.89 2,451 (2,139,2,887) 0.1 0.89 2,451 (2,139,2,887) 0.1 0.89 2,451 (2,139,2,887) 0.1 0.89 2,452 (2,207,2,280) -15.1 0.08 2,575 (2,207,2,280) -20.1 0.04 2,585 (2,017,2,299) -3.5 0.17 2,567 (2,148,2,589) -3.5 0.51 2,567 (2,150,2,810) - 2.55 2,567 (2,150,2,810) - 2.55 2,569 (2,150,2,810) - 2.55 2,595 (2,150,2,810) -0.7 0.95 2,595 (2,150,2,810) -0.7 0.95 2,596 (2,150,2,810) -0.15 2.55 2,597 (2,150,2,810) -0.15 2.55 2,596 (2,206,2,810)	1,012	(841, 1,182)	- 1.6		1,260	(1,016, 1,505)	8.4	
22 2,177 (2,047, 2,007) 966 (760, 1142) 1,360 34 2,575 (2,13, 2,728) 0.1 0.89 (96, 1142) 1,360 34 2,515 (2,13, 2,728) 0.1 0.89 (96, 1142) 1,116 (90, 1,721) 1,53 35 2,355 (2,07, 2,98) 1,116 (961, 1,720) 1,127 36 2,557 (2,28, 3,998) 1,116 (961, 1,720) 1,427 37 2,567 (2,28, 2,398) 2.5 1,117 (960, 1,720) 1,427 38 2,567 (2,28, 2,398) 2.5 1,027 (67, 1,182) 1,427 39 2,667 (2,32, 2,398) 2.5 0,17 (97, 1,182) 1,320 34 2,416 (2,152, 2,383) 1,027 (685, 1,164) 1,13 0,17 1,425 35 2,567 <	22 2.477 (2.007, 2.907) - 43 2.575 (2.270, 2.800) 4.0 39 2.461 (2.139, 2.762) 0.1 0.89 35 2.355 (2.017, 2.602) 35 2.355 (2.017, 2.632) 35 2.355 (2.017, 2.632) 0.03 34 2.756 (2.424, 3.089) 35 2.203 (1.344, 2.522) 0.04	2,177 (2,047, 2,907) . 2,575 (2,270, 2,880) 4.0 0.89 2,411 (2,159, 2,782) 1.1 0.89 2,813 (2,057, 2,719) -15.1 0.08 2,575 (2,207, 2,892) -6.7 2,358 2,017, 2,692) -2.5 2,583 (2,057, 2,719) -15.1 0.08 2,256 -2.01 0.04 2,576 (2,424, 3,089) -6.7 2,01 0.04 2,627 2,385 -2.01 0.04 2,667 (2,335, 2,999) 2,55 0,17 2,245 1,33 0,17 2,646 (2,156, 2,848) - 2,594 1,5 2,59 2,559 (2,150, 2,859) -0.7 0,95 2,55 2,56 0,51 2,526 (1,512, 2,679) 9.1 2,55 2,56 0,55 2,56 2,526 1,52 2,59 1,52 2,59 1,51 0,54 2,55 2,526 1,52 2,59 1,51 0,54 2,55 <td></td> <td>(859, 1, 144)</td> <td></td> <td>0.91</td> <td>1,375</td> <td>(1,171, 1,580)</td> <td>9.1</td> <td>0.52</td>		(859, 1, 144)		0.91	1,375	(1,171, 1,580)	9.1	0.52
42 2.471 (1.49, 1.290) 4.0 1966 (197, 1166) 6.1 1.399 39 2.41 (2.13) 2.782 0.1 0.89 1966 (197, 1166) 6.1 1.399 30 2.41 (2.13) 2.782 0.1 0.89 999 (85, 1146) 1.4 0.99 1.397 31 2.315 (2.07, 2.19) -15.1 0.08 (1.003 (80, 1, 120) 1.293 32 2.353 (2.07, 2.93) (1.116 (80, 1, 120) 1.422 34 2.567 (2.24, 2.59) 1.017 (891, 1.200) 1.422 35 2.667 (2.24, 2.59) 1.027 (891, 1.200) 1.427 36 2.266 (1.252, 2.93) 1.027 (891, 1.200) 1.049 37 2.266 (1.252, 2.93) 1.027 (891, 1.200) 1.026 1.027 <th< td=""><td>42 2,275 (2,270,2,890) 4.0 39 2,461 (2,139,2,782) 0.1 0.89 34 2,275 (2,270,2,890) 4.0 - 35 2,385 (2,017,2,652) -1.6.3 - 35 2,388 (2,07,2,782) -0.1 0.08 34 2,756 (2,424, 3,089) - - 35 2,203 (1,44, 2,562) -0.01 0.09 34 2,667 (2,335, 2,993) 5 - 35 2,2667 (1,33, 2,916) 1 1 34 2,667 (2,335, 2,938) 5 1 35 2,266 (1,915, 2,840) 5 5 5 35 2,599 (2,134, 2,881) 05 5 5 5 36 2,595 (1,215, 2,879) 1 .5 0.15 5 35 2,506 (2,122, 2,841) 1.8,7 0.15 .5 .5 0.15</td><td>2,4/1 (2,270, 2,280) - 2,24/1 (2,280, 2,280) 0.1 0.89 2,241 (2,139, 2,782) 0.1 0.89 2,255 (2,07, 2,199) -16.3 - 2,256 (2,07, 2,199) -5.1 0.08 2,267 (2,28, 2,905) -6.7 - 2,267 (2,28, 2,995) 2.5 - 2,267 (2,28, 2,299) 2.5 - 2,267 (2,28, 2,299) 2.5 - 2,267 (2,195, 2,289) 1.9 - 2,248 (2,087, 2,210) - - 2,249 (2,156, 2,849) 5.6 0.61 2,290 (1,915, 2,879) - - 2,291 (1,912, 2,287) - - 2,292 (1,912, 2,287) - - 2,293 (2,191, 2,286) - - 2,294 (2,192, 2,287) - - 2,295 (2,192, 2,285) - -</td><td>0</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>	42 2,275 (2,270,2,890) 4.0 39 2,461 (2,139,2,782) 0.1 0.89 34 2,275 (2,270,2,890) 4.0 - 35 2,385 (2,017,2,652) -1.6.3 - 35 2,388 (2,07,2,782) -0.1 0.08 34 2,756 (2,424, 3,089) - - 35 2,203 (1,44, 2,562) -0.01 0.09 34 2,667 (2,335, 2,993) 5 - 35 2,2667 (1,33, 2,916) 1 1 34 2,667 (2,335, 2,938) 5 1 35 2,266 (1,915, 2,840) 5 5 5 35 2,599 (2,134, 2,881) 05 5 5 5 36 2,595 (1,215, 2,879) 1 .5 0.15 5 35 2,506 (2,122, 2,841) 1.8,7 0.15 .5 .5 0.15	2,4/1 (2,270, 2,280) - 2,24/1 (2,280, 2,280) 0.1 0.89 2,241 (2,139, 2,782) 0.1 0.89 2,255 (2,07, 2,199) -16.3 - 2,256 (2,07, 2,199) -5.1 0.08 2,267 (2,28, 2,905) -6.7 - 2,267 (2,28, 2,995) 2.5 - 2,267 (2,28, 2,299) 2.5 - 2,267 (2,28, 2,299) 2.5 - 2,267 (2,195, 2,289) 1.9 - 2,248 (2,087, 2,210) - - 2,249 (2,156, 2,849) 5.6 0.61 2,290 (1,915, 2,879) - - 2,291 (1,912, 2,287) - - 2,292 (1,912, 2,287) - - 2,293 (2,191, 2,286) - - 2,294 (2,192, 2,287) - - 2,295 (2,192, 2,285) - -	0							
30 2,461 (2,135,2,1280) 0,11 0,89 0,907 (622,1,146) 1,14 0,99 1,307 31 2,813 (2,475,3,149) 1,116 (980) (997) (907) (107) 1,116 1,117 1,116 1,117 1,116 1,117 1,116 1,117 1,127 1,127 1,127 1,127 1,127 1,127 1,127 1,127 1,127 1,127 1,127 1,127 1,127 1,127 1,127 1,127 1,146 1,127 1,127 1,146 1,127 1,146 1,127 1,127 1,146 1,127 1,145 1,127 1,146 1,127 1,146 1,127 1,146 1,146 1,146 1,146 1,146 1,146 1,146 1,146	34 2,461 (2,139,2,722) 0,10 0,89 34 2,813 (2,476, 3,149) -16,3 0,89 35 2,328 (2,077, 2,192) -15,1 0,08 34 2,756 (2,424, 3,089) -5,7 0,04 34 2,756 (2,424, 3,089) -5,7 0,04 34 2,756 (2,424, 3,089) -5,7 0,04 35 2,267 (2,125, 2,596) -13,3 0,04 35 2,266 (1,215, 2,596) -13,3 0,17 36 2,269 (2,126, 2,840) - - 37 2,529 (2,156, 2,843) 0,5 - 36 2,599 (2,156, 2,881) - - 37 2,599 (2,152, 2,879) - - 38 2,599 (2,152, 2,879) - - 35 2,595 (2,152, 2,879) 9,1 - - 35 2,595 (2,152, 2,879) - -	22471 (2,139, 2,282) 0.1 0.89 2813 (2,476, 3,149) -16.3 0.89 2.813 (2,017, 2,692) -15.1 0.08 2.818 (2,017, 2,692) -15.1 0.08 2.818 (2,017, 2,692) -5.7 0.04 2.819 (2,218, 2,283) - 0.04 2.802 (2,218, 2,262) -0.1 0.04 2.803 (1,844, 2,562) -0.1 0.04 2.804 (2,156, 2,830) - 2.267 2.448 (2,087, 2,810) - - 2.819 (2,156, 2,830) -0.5 2.59 2.829 (2,156, 2,830) -0.5 2.59 2.829 (2,150, 2,850) -0.5 2.59 2.829 (2,150, 2,850) -0.5 2.59 2.829 (2,150, 2,850) -0.5 2.59 2.829 (2,206, 2,860) -11.6 2.5 2.829 (2,206, 2,850) -0.51 2.54 2.829 (2,	1 046	(789, 1,182)	י <u>ת</u>		1,360	(1,077, 1,642)	1 '	
34 2.813 (2.476, 3.149) (116 (960, 1271) (150, 127) 35 2.328 (2.057, 2.719) (30, 127) (31, 126) (32, 126) (32, 126) (32, 126) (32, 126) (32, 126) (32, 126) (32, 126) (32, 126) (32, 126) (32, 126) (32, 126) (34, 126) </td <td>34 2.813 (2,476, 3,149) - 35 2.385 (2,077, 2,692) -15.3 0.08 35 2.385 (2,077, 2,932) -15.3 0.08 34 2.756 (2,424, 3,089) - - 35 2.571 (2,238, 2,905) - - 35 2.2667 (2,238, 2,995) 1.3 0.04 34 2.662 (2,237, 2,338) - - 35 2.2667 (2,332, 2,999) 1.3 0.17 34 2.481 (2,197, 2,810) - - 35 2.2667 (2,130, 2,899) 0.13 - 35 2.509 (2,149, 2,884) -0.5 - - 35 2.505 (1,149, 2,884) -0.5 - - - 35 2.5276 (2,149, 2,887) - - - - 36 2.2726 (2,283,901) 1.87 0.15 - - - - -</td> <td>2813 (2.476, 3,1.49) - 2,355 (2.017, 2.692) -15.1 0.08 2,356 (2.027, 2.199) -15.1 0.04 2,571 (2.242, 3,085) - - 2,571 (2.242, 3,269) - - 2,571 (2.242, 3,269) - - 2,571 (2.247, 2,383) - - 2,572 (2.357, 2,238) - - 2,667 (2.357, 2,249) 1.9 - 2,589 (2.156, 2,834) 1.9 - 2,594 (2.150, 2,849) -0.5 - 2,595 (2.150, 2,859) -0.7 0.95 2,596 (2.150, 2,859) -0.7 0.95 2,596 (2.150, 2,859) -0.15 - 2,597 (2.150, 2,859) -0.15 - 2,596 (2.206, 2,868) -0.15 - 2,597 (2.206, 2,868) -0.15 - 2,596 (2.208, 3,546) -5.1 0.05</td> <td></td> <td>(852, 1,146)</td> <td></td> <td>0.99</td> <td>1,307</td> <td>(1,096, 1,518)</td> <td>-3 :9 -3</td> <td>0.73</td>	34 2.813 (2,476, 3,149) - 35 2.385 (2,077, 2,692) -15.3 0.08 35 2.385 (2,077, 2,932) -15.3 0.08 34 2.756 (2,424, 3,089) - - 35 2.571 (2,238, 2,905) - - 35 2.2667 (2,238, 2,995) 1.3 0.04 34 2.662 (2,237, 2,338) - - 35 2.2667 (2,332, 2,999) 1.3 0.17 34 2.481 (2,197, 2,810) - - 35 2.2667 (2,130, 2,899) 0.13 - 35 2.509 (2,149, 2,884) -0.5 - - 35 2.505 (1,149, 2,884) -0.5 - - - 35 2.5276 (2,149, 2,887) - - - - 36 2.2726 (2,283,901) 1.87 0.15 - - - - -	2813 (2.476, 3,1.49) - 2,355 (2.017, 2.692) -15.1 0.08 2,356 (2.027, 2.199) -15.1 0.04 2,571 (2.242, 3,085) - - 2,571 (2.242, 3,269) - - 2,571 (2.242, 3,269) - - 2,571 (2.247, 2,383) - - 2,572 (2.357, 2,238) - - 2,667 (2.357, 2,249) 1.9 - 2,589 (2.156, 2,834) 1.9 - 2,594 (2.150, 2,849) -0.5 - 2,595 (2.150, 2,859) -0.7 0.95 2,596 (2.150, 2,859) -0.7 0.95 2,596 (2.150, 2,859) -0.15 - 2,597 (2.150, 2,859) -0.15 - 2,596 (2.206, 2,868) -0.15 - 2,597 (2.206, 2,868) -0.15 - 2,596 (2.208, 3,546) -5.1 0.05		(852, 1,146)		0.99	1,307	(1,096, 1,518)	-3 :9 -3	0.73
35 2,335 2,017, 2,692 -1.6.3 9,07 (9,01, 120) -1.6.0 1,296 35 2,388 (2,07, 2,79) -1.5.1 0.08 1,003 (80, 1,169) -1.0.1 1,237 34 2,256 (2,07, 2,79) -1.5.1 0.08 1,003 (80, 1,169) -1.0.1 0,31 1,220 34 2,262 (2,12,5, 2,938) - - 1,116 (80, 1,120) - 1,461 34 2,002 (2,257, 2,938) - - 1,004 960 (784, 1,120) - 1,461 35 2,002 (2,152, 2,381) - 1,001 (835, 1,166) - 1,146 35 2,290 (2,142, 2,384) - 1,007 (861, 1,102) 2,1 1,326 36 2,290 (2,142, 2,384) - 1,001 (855, 1,164) 1,9 0,88 1,445 37 2,291 (2,152, 2,387) - 1,007 (861, 1,07) 3,1 0,17 <th< td=""><td>34 2,375 (2,476, 2,139) -5.3 35 2,388 (2,267, 2,938) - 36 2,267 (2,257, 2,938) - 35 2,267 (2,355, 2,938) - 36 2,267 (2,357, 2,938) - 37 2,267 (2,357, 2,938) - 36 2,267 (2,357, 2,938) - 37 2,266 (1,915, 2,596) -13.3 0,17 36 2,256 (1,915, 2,596) -13.3 0,17 37 2,248 (2,156, 2,885) - - 38 2,251 (2,156, 2,885) - - 34 2,511 (2,156, 2,885) - - 35 2,506 (1,215, 2,867) - - 35 2,525 (1,215, 2,867) - - 35 2,256 (2,128, 2,807) - - 35 2,257 (1,915, 2,57) - - 35 2,266<td>2,2813 (2,017, 2,092) -16.3 2,388 (2,017, 2,092) -15.1 0.08 2,375 (2,242, 3,089) - - 2,387 (2,142, 3,089) - - 2,571 (2,248, 2,295) -0.1 0.04 2,667 (2,245, 2,293) - - 2,667 (2,345, 2,299) -13.3 0.17 2,488 (2,067, 2,210) - - 2,495 (2,156, 2,288) - - 2,599 (2,136, 2,888) - - 2,591 (2,145, 2,889) -0.5 - 2,592 (2,149, 2,889) -0.7 0.95 2,593 (2,149, 2,869) -0.1 0.15 2,594 (2,145, 2,677) - - 2,595 (2,145, 2,610) -0.15 - 2,595 (2,145, 2,626) - - 2,595 (2,145, 2,626) - - 2,595 (2,145, 2,626) - 0.15</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td></th<>	34 2,375 (2,476, 2,139) -5.3 35 2,388 (2,267, 2,938) - 36 2,267 (2,257, 2,938) - 35 2,267 (2,355, 2,938) - 36 2,267 (2,357, 2,938) - 37 2,267 (2,357, 2,938) - 36 2,267 (2,357, 2,938) - 37 2,266 (1,915, 2,596) -13.3 0,17 36 2,256 (1,915, 2,596) -13.3 0,17 37 2,248 (2,156, 2,885) - - 38 2,251 (2,156, 2,885) - - 34 2,511 (2,156, 2,885) - - 35 2,506 (1,215, 2,867) - - 35 2,525 (1,215, 2,867) - - 35 2,256 (2,128, 2,807) - - 35 2,257 (1,915, 2,57) - - 35 2,266 <td>2,2813 (2,017, 2,092) -16.3 2,388 (2,017, 2,092) -15.1 0.08 2,375 (2,242, 3,089) - - 2,387 (2,142, 3,089) - - 2,571 (2,248, 2,295) -0.1 0.04 2,667 (2,245, 2,293) - - 2,667 (2,345, 2,299) -13.3 0.17 2,488 (2,067, 2,210) - - 2,495 (2,156, 2,288) - - 2,599 (2,136, 2,888) - - 2,591 (2,145, 2,889) -0.5 - 2,592 (2,149, 2,889) -0.7 0.95 2,593 (2,149, 2,869) -0.1 0.15 2,594 (2,145, 2,677) - - 2,595 (2,145, 2,610) -0.15 - 2,595 (2,145, 2,626) - - 2,595 (2,145, 2,626) - - 2,595 (2,145, 2,626) - 0.15</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	2,2813 (2,017, 2,092) -16.3 2,388 (2,017, 2,092) -15.1 0.08 2,375 (2,242, 3,089) - - 2,387 (2,142, 3,089) - - 2,571 (2,248, 2,295) -0.1 0.04 2,667 (2,245, 2,293) - - 2,667 (2,345, 2,299) -13.3 0.17 2,488 (2,067, 2,210) - - 2,495 (2,156, 2,288) - - 2,599 (2,136, 2,888) - - 2,591 (2,145, 2,889) -0.5 - 2,592 (2,149, 2,889) -0.7 0.95 2,593 (2,149, 2,869) -0.1 0.15 2,594 (2,145, 2,677) - - 2,595 (2,145, 2,610) -0.15 - 2,595 (2,145, 2,626) - - 2,595 (2,145, 2,626) - - 2,595 (2,145, 2,626) - 0.15								
35 2,388 (2,057, 2/19) -1.5.1 0.08 (1,03) (860, 1,166) -1.0.1 0.31 1,220 35 2,203 (2,44, 3,08) 1,116 (961, 1,270) 1,442 34 2,203 (1,444, 2,52) 01 0,44 960 (764, 1,126) 1.0 1,442 34 2,002 (2,257, 2,938) 1,047 (801, 1,200) 1,445 34 2,002 (2,257, 2,938) 1,047 (801, 1,200) 1,046 35 2,005 (1,315, 2,938) 1.9 1,007 (801, 1,102) 1.1 1,046 35 2,005 (1,315, 2,938) 1.9 1,007 (805, 1,164) 1.9 0,88 1,447 35 2,026 (1,215, 2,838) 0.1 1,027 (871,1162) 2.6 1,337 36 2,297 (1,215, 2,838) 0.5 1,007 (805, 1,164) 1.9 0,88 1,425 37	35 2,388 (2,057, 2,719) -15.1 0.08 34 2,756 (2,424, 3,089) - 35 2,201 (1,235, 2,938) - 35 2,203 (1,844, 2,562) -0.01 34 2,667 (2,35, 2,938) - 35 2,266 (1,915, 2,596) -1.33 0,17 35 2,266 (1,915, 2,596) -1.33 0,17 34 2,266 (1,915, 2,596) -1.33 0,17 34 2,267 (1,215, 2,885) - - 34 2,267 (1,215, 2,885) - - - 35 2,504 (1,215, 2,867) - - - - 35 2,505 (1,615, 2,867) -	2,388 (2,057, 2,719) -15.1 0.08 2,756 (2,424, 3,089) - - 2,251 (2,138, 2,929) -6.7 0.04 2,667 (2,335, 2,939) - 0.04 2,667 (2,335, 2,939) - 0.17 2,667 (2,335, 2,939) 5.6 0.51 2,667 (2,136, 2,849) - 2 2,648 (2,087, 2,810) - 2 2,649 (2,156, 2,848) - 2 2,599 (2,134, 2,849) -0.5 2,55 2,594 (2,149, 2,849) -0.5 2,55 2,595 (2,149, 2,849) -0.5 2,55 2,595 (2,149, 2,847) 9.1 2,55 2,595 (2,145, 2,610) -0.15 2,557 2,595 (2,145, 2,745) -0.15 2,566 2,596 (2,145, 2,745) -5.1 0,64 2,596 (2,152, 2,312) -6.1 2,54 2,596 (2,152, 2,312)	1,116 937	(960, 1,271) (781, 1,094)	-16.0		1,548	(1,058, 1,500)	-17.4	
34 2.756 (2.424, 3.08) 1.116 (961, 1.270) 1.442 35 2.203 (1.244, 2.525) 1.047 960 (724, 1.128) 1.007 1.442 34 2.002 (2.267, 2.293) 1.047 (961, 1.270) 1.447 35 2.067 (2.35, 2.993) 2.5 1.007 (891, 1.202) 1.047 34 2.062 (1.215, 2.993) 2.5 1.007 (855, 1.166) 1.022 1.132 1.132 34 2.448 (2.155, 2.891) 5 0.61 1.020 (855, 1.166) 1.33 1.170 1.340 34 2.521 (2.155, 2.891) 5 0.61 1.020 (855, 1.166) 1.361 1.337 35 2.595 (2.145, 2.847) 5 1.027 (865, 1.107) 1.357 1.35 35 2.595 (2.162, 2.847) 15 1.026 (865, 1.107) <td>34 2,756 (2,424, 3,089) 35 2,271 (2,283, 2,905) 6.7 35 2,273 (1,244, 2,562) 0.04 34 2,602 (2,267, 2,938) 35 2,2667 (2,335, 2,998) 2.5 35 2,256 (1,915, 2,580) 34 2,602 (2,156, 2,840) 1.9 35 2,599 (2,156, 2,885) 34 2,599 (2,159, 2,840) 0.5 35 2,599 (2,150, 2,889) -0.5 34 2,591 (2,152, 2,879) 35 2,593 (2,152, 2,847) 9.1 35 2,595 (2,152, 2,879) 35 2,595 (2,152, 2,847) 9.1 35 2,595 (2,152, 2,869) -0.15 35 2,526 (2,122, 2,841) 1.8,7 0.15 35 2,526 (2,122, 2,830,94) 18,7 0.15 35</td> <td>2.756 (2.424, 3.089) - 2.571 (2.28, 2.262) -20.1 0.04 2.602 (2.267, 2.289) -2.5 0.17 2.667 (2.345, 2.299) 2.5 2.267 2.468 (2.087, 2.810) - 2.45 2.469 (2.155, 2.899) 1.9 2.5 2.599 (2.156, 2.881) - 2.5 2.599 (2.139, 2.899) 5.6 0.61 2.591 (2.156, 2.881) - 2.5 2.599 (2.139, 2.899) -0.7 0.95 2.591 (1.915, 2.679) - 2.5 2.592 (2.139, 2.890) -0.7 0.95 2.593 (2.149, 2.560) -11.6 0.45 2.594 (2.667, 2.745) -3.1 0.54 2.595 (2.149, 2.561) -5.1 0.54 2.596 (2.151, 2.659) -1.1 6 2.596 (2.149, 2.559) -3.1 0.54 2.596 (2.151, 2.659) -5.1<td></td><td>(850, 1,156)</td><td></td><td>0.31</td><td>1 020</td><td>/1 014 1 447)</td><td>- 20 5</td><td></td></td>	34 2,756 (2,424, 3,089) 35 2,271 (2,283, 2,905) 6.7 35 2,273 (1,244, 2,562) 0.04 34 2,602 (2,267, 2,938) 35 2,2667 (2,335, 2,998) 2.5 35 2,256 (1,915, 2,580) 34 2,602 (2,156, 2,840) 1.9 35 2,599 (2,156, 2,885) 34 2,599 (2,159, 2,840) 0.5 35 2,599 (2,150, 2,889) -0.5 34 2,591 (2,152, 2,879) 35 2,593 (2,152, 2,847) 9.1 35 2,595 (2,152, 2,879) 35 2,595 (2,152, 2,847) 9.1 35 2,595 (2,152, 2,869) -0.15 35 2,526 (2,122, 2,841) 1.8,7 0.15 35 2,526 (2,122, 2,830,94) 18,7 0.15 35	2.756 (2.424, 3.089) - 2.571 (2.28, 2.262) -20.1 0.04 2.602 (2.267, 2.289) -2.5 0.17 2.667 (2.345, 2.299) 2.5 2.267 2.468 (2.087, 2.810) - 2.45 2.469 (2.155, 2.899) 1.9 2.5 2.599 (2.156, 2.881) - 2.5 2.599 (2.139, 2.899) 5.6 0.61 2.591 (2.156, 2.881) - 2.5 2.599 (2.139, 2.899) -0.7 0.95 2.591 (1.915, 2.679) - 2.5 2.592 (2.139, 2.890) -0.7 0.95 2.593 (2.149, 2.560) -11.6 0.45 2.594 (2.667, 2.745) -3.1 0.54 2.595 (2.149, 2.561) -5.1 0.54 2.596 (2.151, 2.659) -1.1 6 2.596 (2.149, 2.559) -3.1 0.54 2.596 (2.151, 2.659) -5.1 <td></td> <td>(850, 1,156)</td> <td></td> <td>0.31</td> <td>1 020</td> <td>/1 014 1 447)</td> <td>- 20 5</td> <td></td>		(850, 1,156)		0.31	1 020	/1 014 1 447)	- 20 5	
35 2,571 (2,23,200 -6,7 974 (2,20,200 -1,27 1401 34 2,203 (1,24,252) -201 0.04 960 (74,122) 140 0.17 1401 35 2,067 (2,23,23) - 1,027 (62,1122) 140 0.17 1401 34 2,467 (2,23,23) - 1,027 (67,1123) - 1,306 34 2,48 (2,097,2230) - 1,001 (835,1166) - 1,306 35 2,967 (2,135,239) 0.5 1,001 (85,1160) - 1,306 35 2,995 (2,15,2,28) - - 1,020 (85,1177) - 1,307 35 2,995 (2,15,2,28) - 990 (81,1161) - 1,307 1,307 36 2,997 (2,15,2,28) - 1,997 1,993 1,997 1,337 1,337 1,337 37 2,997 (2,15,2,	35 2,571 (2,233,2900) -6,7 35 2,203 (1,847,2522) -201 0.04 35 2,203 (1,847,2522) -211 0.04 35 2,267 (2,35,298) - - 35 2,667 (2,35,298) - - 34 2,448 (2,087,2810) - - 35 2,266 (1,915,2,586) -13.3 0.17 34 2,448 (2,087,2810) - - 35 2,569 (2,135,2,289) - - 35 2,599 (2,149,2,884) 0.5 - - 34 2,521 (2,152,2,879) - - - 35 2,595 (1,215,2,879) - - - - 35 2,525 (2,38,3,094) 18.7 0.15 - - 35 2,256 (2,415,3,267) - - - - - - -	22,977 (2,238, 2,966) -6,7 22,073 (2,238, 2,966) -30,1 0,04 2,067 (2,238, 2,966) -13,3 0,17 2,2667 (2,315, 2,296) -13,3 0,17 2,2667 (2,315, 2,296) -13,3 0,17 2,248 (2,087, 2,810) - - 2,248 (2,156, 2,830) 5,6 0,61 2,529 (2,156, 2,883) -0,5 - 2,529 (2,149, 2,869) -0,7 0,95 2,529 (2,149, 2,869) -0,7 0,95 2,529 (2,150, 2,859) -0,7 0,95 2,529 (2,152, 3,679) - - 2,5307 (2,216, 3,267) -1,1 - 2,547 (2,236, 3,294) 18,7 0,15 2,548 (1,245, 3,267) -1,1 - 2,546 (2,206, 2,245) -3,3 0,64 2,546 (2,151, 2,861) -5,1 0,64 2,546 (2,352, 3,134) <		1021 1 2701			1,200	(1,014, 1,447)	-20.3	0.05
35 2,203 (1,84,2,56) -20,1 0.04 960 (79,1,128) -1.40 0.17 1.094 34 2,667 (2,35,2,298) 1.027 (821,120) 1.406 34 2,667 (2,35,2,998) 1.027 (821,120) 1.406 34 2,448 (2,087,2,210) 1.001 (835,1,166) 1.320 1.132 35 2,256 (1,131,2,288) 0.5 1.027 (821,1120) 2.5 1.310 1.310 35 2,599 (2,136,288) 0.5 1.001 (845,1177) 1.337 1.337 35 2,599 (1,315,2,287) 0.7 0.95 1.046 (84,1,207) 3.4 1.425 34 2,297 (1,215,2,287) 0.7 1.397 1.396 1.425 35 2,266 (2,150,2,287) 1.16 1.026 (896,1406) 3.4 1.425 36 2,276 (35 2,203 (1,844,2,562) -20.1 0.04 34 2,667 (2,35, 2,98) - - 35 2,267 (1,35, 2,98) - - 34 2,667 (2,35, 2,98) - - 35 2,256 (1,915, 2,596) -13.3 0,17 34 2,448 (2,087, 2,810) - - 35 2,259 (2,156, 2,834) 1.9 - 34 2,521 (2,156, 2,884) -0.5 - 35 2,509 (2,149, 2,884) -0.5 - - 35 2,509 (2,149, 2,884) -0.5 - - - 36 2,507 (2,152, 2,67) - </td <td>2,203 (1,844, 2,562) -20.1 0.04 2,267 (2,35, 2,939) 2.5 2.56 2,267 (2,35, 2,939) 2.5 2.55 2,268 (2,155, 2,2810) - 2.44 2,248 (2,087, 2,810) - 2.445 2,248 (2,156, 2,2834) 1.9 2.50 2,529 (2,156, 2,2834) -0.5 2.50 2,520 (2,156, 2,2834) -0.5 2.50 2,520 (2,156, 2,2834) -0.5 2.50 2,520 (2,156, 2,2839) -0.7 0.95 2,5205 (2,156, 2,2850) -0.7 0.95 2,5205 (2,156, 2,2650) -1.16 2.526 2,5307 (2,206, 2,2650) -1.15 2.546 2,546 (2,206, 2,2651) -5.1 0.64 2,546 (2,151, 2,851) -5.1 0.64 2,546 (2,205, 3,134) 9.1 0.44 2,547 (2,425, 3,134) 9.1 0.44 2,548</td> <td>1.116</td> <td>101.1.2/01</td> <td></td> <td></td> <td>1,482</td> <td>(1,266, 1,698)</td> <td>- 20.3</td> <td>0.05</td>	2,203 (1,844, 2,562) -20.1 0.04 2,267 (2,35, 2,939) 2.5 2.56 2,267 (2,35, 2,939) 2.5 2.55 2,268 (2,155, 2,2810) - 2.44 2,248 (2,087, 2,810) - 2.445 2,248 (2,156, 2,2834) 1.9 2.50 2,529 (2,156, 2,2834) -0.5 2.50 2,520 (2,156, 2,2834) -0.5 2.50 2,520 (2,156, 2,2834) -0.5 2.50 2,520 (2,156, 2,2839) -0.7 0.95 2,5205 (2,156, 2,2850) -0.7 0.95 2,5205 (2,156, 2,2650) -1.16 2.526 2,5307 (2,206, 2,2650) -1.15 2.546 2,546 (2,206, 2,2651) -5.1 0.64 2,546 (2,151, 2,851) -5.1 0.64 2,546 (2,205, 3,134) 9.1 0.44 2,547 (2,425, 3,134) 9.1 0.44 2,548	1.116	101.1.2/01			1,482	(1,266, 1,698)	- 20.3	0.05
34 2,667 (2,257, 2,238) . (1,047 (861, 1,20) . (1,047 35 2,266 (2,355, 2,298) (1,047 (861, 1,20) (1,047 34 2,448 (2,367, 2,210) (1,047 (814, 1,131) .7.1 0.52 (1,132) 34 2,448 (2,367, 2,210) (1,017 (825, 1,166) (1,310) 35 2,495 (2,130, 2,249) 5.6 0.61 1,027 (871, 1,122) 2.6 1,310 35 2,599 (2,134, 2,284) 0.5 1,001 (845, 1,177) 1,391 35 2,599 (2,134, 2,284) 0.7 0.95 1,046 (844, 1,207) 3.4 1,425 36 2,597 (2,152, 2,284) 9.1 1,027 (845, 1,170) 1,396 35 2,266 (2,145, 3,267) 1,046 (844, 1,207) 3.4 1,225 36 2,266 (34 2,667 (2,35, 2,93) . 35 2,267 (2,35, 2,93) 1.3 0.17 34 2,48 (2,067, 2,810) . . 35 2,256 (1,915, 2,586) . 1.3 0.17 34 2,48 (2,067, 2,810) 35 2,599 (2,156, 2,844) 1.9 .	22602 (22.67, 2.938) - 22667 (2.35, 2.996) 3.3 0.17 2248 (2.087, 2.810) - - 2.448 (2.087, 2.810) - - 2.599 (2.156, 2.824) 1.9 - 2.599 (2.156, 2.824) - - 2.599 (2.156, 2.824) - - 2.590 (2.150, 2.824) -0.7 0.95 2.590 (2.150, 2.825) -0.7 0.95 2.590 (2.150, 2.859) -0.7 0.95 2.591 (2.150, 2.859) -0.15 - 2.595 (2.392, 3.904) 18.7 0.15 2.596 (2.395, 3.266) -1.1.6 - 2.596 (2.392, 3.261) -5.1 0.64 2.546 (2.150, 2.549) -5.1 0.64 2.546 (2.150, 2.314) 9.1 0.44 2.547 (1.470, 9.2.38) 9.1 0.44 2.548 (2.302, 3.313) 9.1 <td< td=""><td></td><td>(820, 1, 129)</td><td></td><td></td><td>1,482 1,461</td><td>(1,266, 1,698) (1,244, 1,678)</td><td>-1.4</td><td>0.05</td></td<>		(820, 1, 129)			1,482 1,461	(1,266, 1,698) (1,244, 1,678)	-1.4	0.05
35 2,267 (2,35,2,299) 2,5 (1,07) (87,1,182) -1,1 0,22 (1,32) 34 2,448 (2,087,2,210) - 1,001 (855,1,168) - 1,002 1,132 1,102 1,132 35 2,448 (2,087,2,210) - 1,001 (855,1,168) - 1,002 1,022 1,132 35 2,495 (2,129,2,249) 5,6 0,61 1,002 (855,1,164) 1,9 0,88 1,425 36 2,599 (2,13,2,384) - - 1,002 (855,1,164) 1,9 0,88 1,425 37 2,599 (2,14,2,3,284) - - 960 (819,1,167) - 1,361 1,305 38 2,297 (1,215,2,2847) 9,1 1,026 (866,1,167) 3,4 0,77 1,305 34 2,297 (2,145,2,2847) - 1,145 1,226 1,335 1,316 1,326 1,326 1,326 1,326 1,3	35 2,267 (2,35,2,299) 2.5 36 2,267 (2,15,2,2810) - 35 2,268 (2,15,2,2810) - 35 2,498 (2,156,2,881) 1.9 35 2,599 (2,156,2,881) 5 36 2,599 (2,156,2,883) 0,7 36 2,599 (2,150,2,883) 0,7 36 2,297 (1,915,2,2679) 1,1 37 2,297 (1,915,2,2679) 1,1 38 2,297 (1,915,2,2887) 0,15 37 2,297 (1,915,2,287) 1,1 35 2,2756 (2,268,2,2883) 0,15 35 2,297 (1,246,2,2883) 1,1 35 2,296 (2,246,2,883) 1,1 35 2,2406 (2,248,2,301) 1 35 2,2406 (2,215,2,314) 5,1 0,64 36 2,2406 (2,215,2,314) 5,1 0,64 35	2,2667 (2,315, 2,299) 2.5 2,2667 (2,315, 2,299) 1.3.3 0.17 2,248 (2,087, 2,210) - - 2,489 (2,216, 2,234) 1.9 0.17 2,589 (2,220, 2,243) 5.6 0.61 2,529 (2,156, 2,885) - - 2,509 (2,150, 2,859) -0.7 0.95 2,504 (2,150, 2,847) 9.1 0.15 2,505 (2,162, 2,447) 9.1 0.15 2,505 (2,162, 2,447) 9.1 0.15 2,505 (2,162, 2,447) 9.1 0.15 2,517 (2,245, 2,516) -0.99 0.08 2,528 (1,2415, 2,526) -11.6 0.64 2,529 (2,265, 2,526) -13.1 0.64 2,529 (2,245, 2,329) -13.1 0.64 2,5246 (2,245, 2,329) -13.1 0.64 2,5248 (2,245, 2,329) -13.1 0.64 2,524 (2,245, 2,329)		(901, 1,270) (820, 1,129) (794, 1,126)		0.17	1,482 1,461 1,094	(1,266, 1,698) (1,244, 1,678) (861, 1,327)	-20.3 -1.4 -26.2	0.05
34 2,448 (2,087,2,810) - 1,001 (855,1166) - 1,306 35 2,495 (2,155,2,234) 1.9 1,027 (871,1182) 2.6 1,310 34 2,595 (2,215,2,234) 1.9 1,027 (871,1182) 2.6 1,310 35 2,595 (2,215,2,284) 1,001 (845,1164) 1.9 0.88 1,425 36 2,591 (2,115,2,287) 1,901 (841,177) 1,361 35 2,591 (2,155,2,284) 993 (817,1,170) 1,361 36 2,297 (1,215,2,284) 91 1,026 (866,197) 3.4 0.77 1,305 35 2,287 (2,288,3,011) 9.1 1,026 (866,197) 3.3 0.81 1,526 35 2,286 (1,46,2,100) 0.1 1,027 (818,1266) 1,326 35 2,286 (1,245,2,510) 0.3	34 2.448 (2,067, 2,810) - 35 2,495 (2,156, 2,843) 1.9 35 2,599 (2,250, 2,949) 5.6 0.61 35 2,599 (2,150, 2,859) - - 35 2,599 (2,150, 2,859) -0.7 0.95 35 2,504 (2,150, 2,859) -0.7 0.95 34 2,297 (1,915, 2,679) 9.1 - 35 2,726 (2,145, 2,847) 9.1 - 35 2,227 (1,246, 2,863) -11.6 - - 35 2,228 (1,246, 2,863) -11.6 - - - 35 2,228 (1,246, 2,863) -11.6 - - - - 35 2,246 (2,245, 2,867) -1.1 - - - - 36 2,246 (2,245, 2,867) -1.1 - - - - - - - - -	2,448 (2,087, 2,810) - 2,495 (2,156, 2,834) 1.9 2,589 (2,230, 2,849) 5.6 0.61 2,521 (2,156, 2,835) -0.5 2,509 2,509 (2,150, 2,859) -0.7 0.95 2,504 (2,150, 2,847) 9.1 0.15 2,505 (2,162, 2,847) 9.1 0.15 2,505 (2,162, 2,847) 9.1 0.15 2,504 (2,415, 3,267) - 2,247 2,517 (2,262, 3,011) - 2,246 2,246 (2,167, 2,745) -5.1 0.64 2,256 (2,167, 2,745) -5.1 0.64 2,256 (2,167, 2,745) -5.1 0.64 2,256 (2,167, 2,345) -5.1 0.64 2,256 (2,167, 2,345) -5.1 0.64 2,256 (2,167, 2,345) -5.1 0.64 2,258 (2,245, 3,134) -1.3.1 0.64 2,279 (2,425, 3,134) 0.41		(801, 1,270) (820, 1,129) (794, 1,126) (891, 1,203)		0.17	1,482 1,482 1,461 1,094 1,406	(1,266, 1,698) (1,264, 1,678) (861, 1,327) (1,189, 1,623)	-20.3 -1.4 -26.2	0.05
34 2,44 (1,105, 2,231) - 1,027 (657, 1,182) 2.5 1,300 35 2,895 (1,215, 2,231) - 1,027 (655, 1,164) 1.9 0.88 1,300 34 2,521 (2,156, 2,281) - 1,011 (645, 1,177) - 1,301 35 2,504 (2,150, 2,289) -0.5 993 (617, 1,170) - 1,301 34 2,227 (1,915, 2,579) - 993 (617, 1,170) - 1,307 35 2,504 (2,150, 2,267) 9.1 1,027 (898, 1,266) 3.4 1,325 34 2,297 (1,915, 2,57) 9.1 1,027 (898, 1,266) 3.4 1,329 35 2,526 (2,150, 2,567) - 1,026 (856, 1,197) 3.3 0,81 1,329 35 2,506 (2,150, 2,268) - 1,026 (856, 1,197) 3.3 0,81 1,329 35 2,506 (2,150, 2,268) <	34 2,249 (2,165,2,84) - 35 2,899 (2,230,2,949) 5.6 0.61 34 2,521 (2,156,2,84) - - 35 2,504 (2,150,2,84) - - 35 2,504 (2,150,2,84) 0.05 - 35 2,504 (2,150,2,84) 0.15 - 34 2,297 (1,915,2,679) - - 35 2,505 (2,149,2,880) 0.15 - 35 2,576 (2,383,304) 18.7 0.15 35 2,587 (2,206,2,880) -11.6 - 35 2,596 (2,127,2,781) -3 - 35 2,596 (2,205,2,883) -11.6 - 35 2,596 (2,215,2,861) -5.1 0.64 18/7 35 2,546 (2,205,2,587) - - 35 2,712 (1,870,2,559) -3.1 0.64 35 2	2,448 (2,156, 2,230) - 2,899 (2,120, 2,230) 1.9 2,529 (2,120, 2,230) - 2,529 (2,156, 2,885) - 2,529 (2,156, 2,885) - 2,529 (2,150, 2,859) - 2,529 (2,150, 2,859) - 2,529 (2,152, 2,647) 9.1 2,526 (2,152, 2,547) 9.1 2,527 (2,238, 3,094) 18.7 0.15 2,528 (2,245, 3,2610) -0.9 0.08 2,529 (2,265, 2,2630) -11.6 - 2,526 (2,152, 2,526) -1.15 - 2,526 (2,152, 2,526) -5.1 0.64 2,526 (2,152, 2,329) -1.3.1 0.64 2,526 (2,245, 3,239) -1.3.1 0.44 2,524 (2,245, 3,239) -0.4 - 2,524 (2,245, 3,239) -0.4 - 2,524 (2,245, 3,239) -0.44 - 2,524<		(820, 1, 1,29) (820, 1,129) (794, 1,126) (891, 1,203) (873, 1,182) (814, 1,131)		0.17	1,482 1,482 1,461 1,094 1,406 1,497 1,497	(1,266, 1,698) (1,266, 1,698) (1,244, 1,678) (861, 1,327) (861, 1,327) (1,189, 1,623) (1,283, 1,711) (912, 1,352)	-20.3 -1.4 -26.2 -19.5	0.05
35 2,59 (2,23), 2,949) 5.6 0.61 1,020 (655, 1,164) 1.9 0.88 1,425 34 2,521 (2,15, 2,885) - 1,011 (445, 1,177) - 1,361 35 2,594 (2,15, 2,885) - 1,041 (445, 1,177) - 1,361 34 2,297 (1,515, 2,879) - 993 (617, 1,170) - 1,377 35 2,595 (2,142, 2,347) 9.1 1,027 (469, 1,160) 3.4 0,77 1,395 35 2,756 (2,135, 2,67) - 1,197 1,027 (469, 1,160) 3.4 1,329 35 2,756 (2,135, 2,56) 1.5 1,026 (686, 1,167) 3.3 0,81 1,366 35 2,246 (2,245, 2,168) 1.5 1,027 (488, 1,226) 3 1,366 35 2,246 (2,245, 2,168) 1 1,024 (680, 1,167) 5 0,66 1,324 1,324	35 2,589 (2,230, 2,948) 5.6 0.61 34 2,521 (2,156, 2,885) - - 35 2,504 (2,150, 2,885) -0.5 - 35 2,504 (2,150, 2,885) -0.7 0.95 34 2,297 (1,915, 2,679) -1 - 35 2,506 (2,152, 2,867) 9.1 - 35 2,726 (2,383, 3,004) 18.7 0.15 35 2,278 (2,453, 2,867) -1.6 - 35 2,287 (2,283, 3,011) - - 35 2,206 (2,283, 3,011) - - 35 2,206 (2,295, 2,765) -3.1 0.64 18/7 35 2,244 (2,205, 2,867) - - 35 2,214 (1,287, 2,519) -5.1 0.64 35 2,214 (2,205, 2,3134) -3.1 0.44 36 2,2179 (2,425, 3,134) -3.1 0.44	2,589 (2,230, 2,949) 5.6 0.61 2,521 (2,156, 2,885) -0.5 2.52 2,509 (2,114, 2,884) -0.5 2.52 2,504 (2,150, 2,859) -0.7 0.95 2,505 (2,116, 2,847) 9.1 0.15 2,505 (2,162, 2,847) 9.1 0.15 2,505 (2,162, 2,647) 9.1 0.15 2,505 (2,162, 2,647) 9.1 0.15 2,505 (2,2,162, 2,649) -0.15 2,566 2,527 (2,245, 2,560) -11.6 2,566 2,526 (2,152, 2,845) -5.1 0.64 2,526 (2,152, 2,3124) -9.3 2,564 2,526 (2,152, 2,3259) -13.1 0.64 2,526 (2,245, 2,3259) -13.1 0.64 2,526 (2,245, 2,3259) -13.1 0.64 2,526 (2,245, 2,3259) -13.1 0.64 -3,5279 -4.2 -5.21 0.64 -2,524		(820, 1, 1279) (820, 1, 129) (794, 1, 126) (891, 1, 203) (873, 1, 182) (814, 1, 131)		0.17	1,482 1,461 1,094 1,406 1,406 1,497 1,132	(1,266, 1,698) (1,244, 1,678) (1,244, 1,678) (861, 1,327) (1,189, 1,623) (1,283, 1,711) (912, 1,352)	-20.3 -1.4 -26.2 -19.5	0.05 0.03 0.10
34 2,521 (2,156,2,885) · 1,011 (645,1,177) · 1,361 35 2,594 (2,150,2,859) -0.5 960 (819,1,07) . 1,377 35 2,594 (2,150,2,859) -0.7 0.95 1,046 (841,107) . 1,377 35 2,595 (1,612,2,247) 9.1 1,027 (808,1,107) 3.4 0,77 1,395 35 2,595 (1,512,2,247) 9.1 1,027 (808,1,107) 3.4 1,229 35 2,726 (2,358,3,04) 18.7 0.15 1,026 (866,1,197) 3.3 0.81 1,564 35 2,228 (1,245,2,268) -1.16 1,007 (988,1,206) -1.18 1,396 35 2,249 (2,258,3,011) -3.3 0.81 1,564 1,396 36 2,246 (2,267,2,245) -3.3 0.464 1,024 (800,1,187) -5.9 0.66 1,324 36 2,719	34 2.521 (2,156, 2,885) - 35 2.504 (2,150, 2,885) -0.5 35 2.504 (2,150, 2,885) -0.7 0.95 34 2.297 (1,915, 2,679) - - 35 2.505 (2,162, 2,847) 9.1 - 35 2.726 (2,353, 3,094) 18.7 0.15 35 2.2287 (1,415, 3,267) - - 35 2.2287 (2,462, 2,883) -20.9 0.08 Intake, tertiles 34 2,406 (2,067, 2,745) -9.3 - 35 2,206 (2,151, 2,861) -1.1 - - - 35 2,406 (2,151, 2,861) -5.1 0.64 - - 19/ml 35 2,506 (2,151, 2, 2,81) -1.1 - - 36 2,719 (2,425, 3,134) 9.1 0.64 - - 37 2,794 (2,425, 3,134) 9.1 0.44	2,221 (2,156, 2,885) - 2,504 (2,136, 2,859) -0,7 0,95 2,505 (2,136, 2,867) - - 2,505 (2,152, 2,877) 9 - 2,505 (2,152, 2,877) 9.1 0,15 2,505 (2,145, 3,267) - - 2,505 (2,145, 3,267) - - 2,507 (2,415, 3,267) - - 2,507 (2,415, 3,267) - - 2,517 (2,415, 2,745) -9.3 0,08 2,528 (1,846, 2,745) -9.3 - 2,506 (2,151, 2,261) -5.1 0,64 2,548 (2,2,152, 3,134) -9 1 0,44 2,548 (2,2,452, 3,134) -9.1 0,54 - 2,548 (2,2,452, 3,134) -9.1 0,54 - 2,548 (2,2,452, 3,134) -9.1 0,54 - 2,548 (2,2,452, 3,134) -0.4 - - -		(820, 1, 1270) (820, 1, 126) (794, 1, 126) (891, 1, 203) (873, 1, 182) (814, 1, 131) (835, 1, 166) (871, 1, 182)		0.17	1,482 1,482 1,461 1,406 1,406 1,497 1,132 1,310	(1,266, 1,698) (1,244, 1,678) (861, 1,327) (1,189, 1,623) (1,283, 1,711) (912, 1,352) (1070, 1,543) (1,088, 1,532)	-20.5 - 26.2 - 19.5 0.3	0.05 0.03 0.10
34 2,504 (2,14), 2,803 -5 -1,016 (495, 1,17) -2,11 1,377 35 2,504 (2,14), 2,803 -5 -1,046 (84, 1,207) 3,4 0,77 1,397 34 2,294 (2,15), 2,879 -7 0.95 1,046 (84, 1,207) 3,4 0,77 1,397 35 2,595 (2,15), 2,879 -1 1,927 1,926 (861, 1,160) -1 1,337 34 2,811 (2,415, 3,267) -1 1,927 (881, 1,160) 3.4 1,337 35 2,228 (1,245, 2,267) -1 1,126 1,026 (866, 1,197) 3.3 0.811 1,564 35 2,228 (1,245, 2,268) -1.16 1,097 (888, 1,280) -1 1,564 35 2,246 (2,268, 3,011) -3 1,164 1,097 (888, 1,280) -1 1,307 36 2,506 (2,151, 2,861) -5.1 0.64 1,024 (860, 1,187) -5.9 <td>34 2,504 (2,139, 2,863) -0.5 35 2,504 (2,149, 2,883) -0.5 34 2,207 (1,915, 2,679) - 35 2,504 (2,150, 2,883) 0.5 34 2,207 (1,915, 2,679) - 35 2,5726 (2,350, 3,094) 18,7 0.15 35 2,527 (2,415, 3,267) - - 35 2,228 (2,415, 3,267) - - 35 2,228 (2,415, 3,267) - - 35 2,228 (2,436, 2,610) -0.08 Intake, tertiles 3 2,546 (2,268, 3,011) - 35 2,506 (2,151, 2,861) -5.1 0.64 rg/mtl 34 2,548 (2,269, 2,887) - 35 2,506 (2,151, 2,861) -5.1 0.64 35 2,514 (2,269, 2,887) - - 36 2,779 (2,425, 3,134) 0.44 0.44</td> <td>2241 (2),213,2,2,880 -0.7 2590 (2),130,2,889 -0.7 0.95 2,297 (1,915,2,6,79) - - 2,295 (2,216,2,8,79) 9.1 - 2,295 (2,216,2,8,79) 9.1 - 2,295 (2,216,2,8,79) 9.1 - 2,295 (2,216,2,8,69) 18.7 0.15 2,841 (2,216,2,26,60) -20.9 0.08 2,245 (1,246,2,26,60) -20.9 0.08 2,246 (2,206,2,24,65) -9.3 0.64 2,246 (2,151,2,26,61) -5.1 0.64 2,246 (2,151,2,26,61) -5.1 0.64 2,246 (2,151,2,26,61) -5.1 0.64 2,246 (2,425,3,134) 9.1 0.44 2,247 (1,425,3,134) 9.1 0.44 2,247 (1,425,3,134) 9.1 0.44 2,248 (2,425,3,134) 9.1 0.44 2,244 (1,4270,2,52,61) 1.</td> <td></td> <td>(220, 1, 120) (220, 1, 126) (794, 1, 126) (891, 1, 203) (873, 1, 182) (814, 1, 131) (835, 1, 166) (855, 1, 184)</td> <td></td> <td>0.17 0.52</td> <td>1,482 1,461 1,461 1,406 1,409 1,497 1,300 1,310</td> <td>(1,266, 1,698) (1,266, 1,678) (861, 1,327) (1,189, 1,623) (1,283, 1,711) (912, 1,352) (1070, 1,543) (1,088, 1,532) (1,088, 1,532)</td> <td>-20.5 -1.4 -1.9.5 -1.9.5 -1.9.5 -1.9.5 -1.9.5</td> <td>0.05 0.03 0.10</td>	34 2,504 (2,139, 2,863) -0.5 35 2,504 (2,149, 2,883) -0.5 34 2,207 (1,915, 2,679) - 35 2,504 (2,150, 2,883) 0.5 34 2,207 (1,915, 2,679) - 35 2,5726 (2,350, 3,094) 18,7 0.15 35 2,527 (2,415, 3,267) - - 35 2,228 (2,415, 3,267) - - 35 2,228 (2,415, 3,267) - - 35 2,228 (2,436, 2,610) -0.08 Intake, tertiles 3 2,546 (2,268, 3,011) - 35 2,506 (2,151, 2,861) -5.1 0.64 rg/mtl 34 2,548 (2,269, 2,887) - 35 2,506 (2,151, 2,861) -5.1 0.64 35 2,514 (2,269, 2,887) - - 36 2,779 (2,425, 3,134) 0.44 0.44	2241 (2),213,2,2,880 -0.7 2590 (2),130,2,889 -0.7 0.95 2,297 (1,915,2,6,79) - - 2,295 (2,216,2,8,79) 9.1 - 2,295 (2,216,2,8,79) 9.1 - 2,295 (2,216,2,8,79) 9.1 - 2,295 (2,216,2,8,69) 18.7 0.15 2,841 (2,216,2,26,60) -20.9 0.08 2,245 (1,246,2,26,60) -20.9 0.08 2,246 (2,206,2,24,65) -9.3 0.64 2,246 (2,151,2,26,61) -5.1 0.64 2,246 (2,151,2,26,61) -5.1 0.64 2,246 (2,151,2,26,61) -5.1 0.64 2,246 (2,425,3,134) 9.1 0.44 2,247 (1,425,3,134) 9.1 0.44 2,247 (1,425,3,134) 9.1 0.44 2,248 (2,425,3,134) 9.1 0.44 2,244 (1,4270,2,52,61) 1.		(220, 1, 120) (220, 1, 126) (794, 1, 126) (891, 1, 203) (873, 1, 182) (814, 1, 131) (835, 1, 166) (855, 1, 184)		0.17 0.52	1,482 1,461 1,461 1,406 1,409 1,497 1,300 1,310	(1,266, 1,698) (1,266, 1,678) (861, 1,327) (1,189, 1,623) (1,283, 1,711) (912, 1,352) (1070, 1,543) (1,088, 1,532) (1,088, 1,532)	-20.5 -1.4 -1.9.5 -1.9.5 -1.9.5 -1.9.5 -1.9.5	0.05 0.03 0.10
35 2,504 (j,150, j,289) -0.7 0.95 1,046 (684, j,207) 3.4 0.77 j,305 34 2,297 (1,915, 2,679) - 993 (617, 1,170) - 1,145 35 2,276 (2,315, 3,267) - 993 (617, 1,170) - 1,145 34 2,291 (2,415, 3,267) - 1,125 1,026 (856, 1,196) 3.3 0.81 1,352 35 2,228 (1,2415, 3,267) - 1,026 (856, 1,197) 3.3 0.81 1,354 35 2,228 (1,2415, 3,267) - 1,026 (856, 1,197) 3.3 0.81 1,354 35 2,238 (1,246, 2,610) -30.9 0.08 1072 (818, 1,296) - 1,396 34 2,496 (2,288, 3,011) - 1,026 (860, 1,187) 5.9 0.66 1,324 370/11 3 2,246 (2,151, 2,266) 1 1,426 1,324 1,3	35 2,504 (2,150, 2,859) -0.7 0.95 34 2,297 (1,915, 2,679) - - 35 2,726 (2,383, 3,04) 18,7 0.15 35 2,726 (2,383, 3,04) 18,7 0.15 35 2,227 (1,245, 3,267) - - 34 2,841 (2,445, 3,267) - - 35 2,228 (1,246, 2,610) -0.9 0.08 intake, tertiles 35 2,266 (2,288, 3,011) - - 35 2,266 (2,2151, 2,861) -5.1 0.64 35 2,246 (2,425, 3,239) -1.1 - 36 2,246 (2,207, 2,781) -5.1 0.64 37 2,506 (2,153, 2,539) -1.1 - 36 2,214 (1,270, 2,539) -1.1 - 37 2,214 (1,270, 2,539) -1.1 - 38 2,2179 (2,425, 3,1349) 9.1	2,504 (2,150, 2,859) -0.7 0.95 2,297 (1,915, 2,679) - 2,255 2,256 2,256 2,256 2,256 2,256 2,256 2,256 2,256 2,256 2,258 2,258 1,15 2,258 2,258 1,256 2,258 1,15 2,258 1,256 2,258 1,256 2,258 1,266 2,067 2,258 1,256 2,351 - 2,256 2,259 - 2,256 2,151, 2,2661 - 3,256 2,259 1,31 0,64 2,258 1,2559 - 2,248 1,259,0 1,04 2,279 1,21,1 0,64 2,259 1,21,1 0,64 2,259 1,21,1 0,64 2,259 1,21,1 0,64 2,259 1,21,1 0,64 2,259 1,21,1 0,64 2,259 1,21,1 0,64 2,259 1,21,1 0,64 2,259 1,21,1 0,64 2,259 1,21,1 0,64 2,259 1,21,1 0,64 2,21,21 1,24,25 <		(201, 1, 20) (220, 1, 126) (794, 1, 126) (891, 1, 203) (873, 1, 182) (814, 1, 131) (814, 1, 131) (835, 1, 166) (871, 1, 182) (855, 1, 184)		0.17 0.52 0.88	1,482 1,461 1,466 1,406 1,406 1,406 1,406 1,406 1,406 1,406 1,406	(1,266,1688) (1,266,1688) (864,1,327) (1,188,1,327) (1,188,1,327) (1,283,1,711) (912,1,322) (1070,1,542) (1,190,1,661) (1,190,1,661)	-20-3 -1-4 -1-2-6-2 -1-9-5 -1-9-5 -1-9-5 -1-9-5	0.05 0.10 0.51
34 2.297 (1,915, 2,679) - 993 (617, 1,170) - 1,145 35 2.595 (2,152, 2,247) 9,1 1,027 (869, 1,166) 3,4 1,329 35 2.756 (2,353, 3,994) 18,7 0,15 1,007 (869, 1,166) 3,4 1,329 35 2.537 (2,265, 2,367) - 1,006 (865, 1,97) 3,3 0,81 1,529 35 2.537 (2,265, 2,361) - 1,007 (869, 1,96) -,3 1,366 35 2.282 (1,845, 2,610) -,309 0,08 902 (724, 1,080) -,17.8 0,23 1,196 intake, tertiles 3 2,246 (2,267, 2,245) - 1,024 (721, 1,254) - 1,226 1,236 1,236 1,232 1,266 1,232 1,266 1,232 1,266 1,232 1,266 1,228 1,236 1,236 1,236 1,236 1,236 1,236 1,236 1,236 1,236	34 2.297 (1,915, 2.679) - 35 2.505 (2,162, 2,847) 9.1 35 2.726 (2,353, 3,094) 18.7 0.15 35 2.527 (2,353, 3,094) 18.7 0.15 35 2.527 (2,256, 2,560) -0.9 0.08 35 2.527 (2,266, 2,266) -0.9 0.08 35 2.649 (2,258, 3,011) - - 35 2.646 (2,057, 2,745) -3.3 - 35 2.506 (2,151, 2,861) -5.1 0.64 35 2.246 (2,29, 2,887) - - 35 2.246 (2,25, 3,134) - 0.64 35 2.214 (1,870, 2,559) -3.1 0.64 35 2.214 (1,870, 2,559) -3.1 0.64 35 2.214 (1,870, 2,559) -3.1 0.64 35 2.214 (1,870, 2,559) -3.1 0.64 35 2	2.297 (1,915, 2,679) - 2.595 (2,162, 2,847) 9,1 0.15 2.811 (2,415, 3,267) - - 2.517 (2,206, 2,868) -11.6 - 2.528 (1,846, 2,610) -0.08 - 2.528 (1,846, 2,610) -0.08 - 2.526 (2,206, 2,868) -1.1 - 2.526 (2,151, 2,861) -5.1 0.64 2.526 (2,167, 2,745) -5.1 0.64 2.548 (2,209, 2,887) - - 2.548 (2,209, 2,887) - - 2.548 (2,245, 3,134) -9.1 0.64 2.548 (2,245, 3,134) -0.44 - 2.548 (2,245, 3,134) 0.44 - 2.548 (2,245, 3,134) 0.44 - 2.544 (1,870, 2,559) - - 2.547 (2,445, 3,134) 0.44 - -sterroidal anti-infiammatory drug: OD, optical density. -		(201, 1, 20) (220, 1, 126) (794, 1, 126) (873, 1, 182) (873, 1, 182) (874, 1, 131) (855, 1, 166) (877, 1, 182) (855, 1, 184) (855, 1, 184) (845, 1, 177)		0.17 0.52 0.88	1,482 1,461 1,094 1,406 1,406 1,407 1,407 1,306 1,306 1,310 1,310 1,310	(1,00%,1,698) (1,246,1,698) (861,1,327) (1,189,1,623) (1,283,1,711) (912,1,362) (1,080,1,543) (1,080,1,661) (1,182,1,623) (1,123,1,600) (1,132,1,623)	-2003 -26.5 -19.5 9.1 9.1	0.05 0.10 0.51
34 2,257 (1,212,247) 9.1 1027 (469,1166) 3.4 1,229 35 2,276 (2,315,247) 9.1 1027 (469,1166) 3.4 1,329 36 2,276 (2,315,2367) 9.1 1,027 (469,1166) 3.4 1,329 34 2,441 (2,415,3267) 9.1 1,027 (469,1166) 3.4 1,329 35 2,281 (2,415,3267) 1,007 (88,1266) 1,329 35 2,281 (2,415,3267) 1,007 (88,1266) 1,329 35 2,281 (2,46,2100) 0.9 9.02 (724,1060) 1.8 1,307 35 2,96 (2,138,1266) 5.1 0.64 1,024 (63,1,176) 1,328 36 2,760 (2,153,1261) 5.1 0.64 1,024 (63,1,176) 1,326 19/ml 3 2,148 (2,205,2887) 1 <t< td=""><td>34 2,47 (1,51), 2,673 9.1 35 2,505 (1,52,2,847) 9.1 35 2,726 (2,38,3,094) 18.7 0.15 35 2,527 (2,26,2,847) 9.1 5 35 2,2726 (2,38,3,094) 18.7 0.15 35 2,287 (2,26,2,840) -11.6 5 35 2,228 (1,846,2,5100) -20.9 0.08 35 2,269 (2,28,3,011) - - 35 2,606 (2,057,2,745) - - 35 2,506 (2,128,3,011) - - 36 2,506 (2,128,2,12,861) - - 18/7 35 2,214 (1,370,2,559) - 1 35 2,214 (1,370,2,559) - 1 0.64 35 2,214 (1,370,2,559) - 1 0.44 36 2,179 (2,425,3,134) 9.1 0.44 <t< td=""><td>2,227 (1,2,2,2,247) 9.1 2,255 (2,12,2,247) 9.1 2,257 (2,23,5,3,094) 18.7 0.15 2,257 (2,20,5,2,65) -11.6 2,258 (1,24,5,2,56) -20.9 0.08 2,228 (1,24,5,2,56) -20.9 0.08 2,246 (2,05,2,7,45) -9.3 2,546 (2,151,2,861) -5.1 0.64 2,256 (2,151,2,861) -5.1 0.64 2,276 (2,152,2,59) -13.1 0.64 2,276 (2,252,3,124) 9.1 0.44 2,276 (1,2472,3,124) 0.44 2,276 (1,2472,3,124) 0.44 </td><td></td><td>(820, 1, 1290) (820, 1, 1290) (874, 1, 126) (873, 1, 1203) (873, 1, 1382) (874, 1, 1312) (835, 1, 166) (855, 1, 182) (855, 1, 182) (855, 1, 182) (855, 1, 177) (819, 1, 161) (819, 1, 161) (844, 1, 207)</td><td></td><td>0.17 0.52 0.88</td><td>1,482 1,461 1,094 1,406 1,407</td><td>(1,077, 1,477) (1,244, 1,678) (861, 1,327) (1,189, 1,623) (1,283, 1,711) (912, 1,352) (1070, 1,543) (1,088, 1,532) (1,198, 1,653) (1,192, 1,661) (1,192, 1,623) (1,073, 1,538)</td><td>-2003 -1955 -26,2 -1955 -26,20</td><td>0.05 0.10 0.51</td></t<></td></t<>	34 2,47 (1,51), 2,673 9.1 35 2,505 (1,52,2,847) 9.1 35 2,726 (2,38,3,094) 18.7 0.15 35 2,527 (2,26,2,847) 9.1 5 35 2,2726 (2,38,3,094) 18.7 0.15 35 2,287 (2,26,2,840) -11.6 5 35 2,228 (1,846,2,5100) -20.9 0.08 35 2,269 (2,28,3,011) - - 35 2,606 (2,057,2,745) - - 35 2,506 (2,128,3,011) - - 36 2,506 (2,128,2,12,861) - - 18/7 35 2,214 (1,370,2,559) - 1 35 2,214 (1,370,2,559) - 1 0.64 35 2,214 (1,370,2,559) - 1 0.44 36 2,179 (2,425,3,134) 9.1 0.44 <t< td=""><td>2,227 (1,2,2,2,247) 9.1 2,255 (2,12,2,247) 9.1 2,257 (2,23,5,3,094) 18.7 0.15 2,257 (2,20,5,2,65) -11.6 2,258 (1,24,5,2,56) -20.9 0.08 2,228 (1,24,5,2,56) -20.9 0.08 2,246 (2,05,2,7,45) -9.3 2,546 (2,151,2,861) -5.1 0.64 2,256 (2,151,2,861) -5.1 0.64 2,276 (2,152,2,59) -13.1 0.64 2,276 (2,252,3,124) 9.1 0.44 2,276 (1,2472,3,124) 0.44 2,276 (1,2472,3,124) 0.44 </td><td></td><td>(820, 1, 1290) (820, 1, 1290) (874, 1, 126) (873, 1, 1203) (873, 1, 1382) (874, 1, 1312) (835, 1, 166) (855, 1, 182) (855, 1, 182) (855, 1, 182) (855, 1, 177) (819, 1, 161) (819, 1, 161) (844, 1, 207)</td><td></td><td>0.17 0.52 0.88</td><td>1,482 1,461 1,094 1,406 1,407</td><td>(1,077, 1,477) (1,244, 1,678) (861, 1,327) (1,189, 1,623) (1,283, 1,711) (912, 1,352) (1070, 1,543) (1,088, 1,532) (1,198, 1,653) (1,192, 1,661) (1,192, 1,623) (1,073, 1,538)</td><td>-2003 -1955 -26,2 -1955 -26,20</td><td>0.05 0.10 0.51</td></t<>	2,227 (1,2,2,2,247) 9.1 2,255 (2,12,2,247) 9.1 2,257 (2,23,5,3,094) 18.7 0.15 2,257 (2,20,5,2,65) -11.6 2,258 (1,24,5,2,56) -20.9 0.08 2,228 (1,24,5,2,56) -20.9 0.08 2,246 (2,05,2,7,45) -9.3 2,546 (2,151,2,861) -5.1 0.64 2,256 (2,151,2,861) -5.1 0.64 2,276 (2,152,2,59) -13.1 0.64 2,276 (2,252,3,124) 9.1 0.44 2,276 (1,2472,3,124) 0.44 2,276 (1,2472,3,124) 0.44 		(820, 1, 1290) (820, 1, 1290) (874, 1, 126) (873, 1, 1203) (873, 1, 1382) (874, 1, 1312) (835, 1, 166) (855, 1, 182) (855, 1, 182) (855, 1, 182) (855, 1, 177) (819, 1, 161) (819, 1, 161) (844, 1, 207)		0.17 0.52 0.88	1,482 1,461 1,094 1,406 1,407	(1,077, 1,477) (1,244, 1,678) (861, 1,327) (1,189, 1,623) (1,283, 1,711) (912, 1,352) (1070, 1,543) (1,088, 1,532) (1,198, 1,653) (1,192, 1,661) (1,192, 1,623) (1,073, 1,538)	-2003 -1955 -26,2 -1955 -26,20	0.05 0.10 0.51
35 2,726 (2,358,3,094) 18.7 0.15 1.026 (666,1,197) 3.3 0.81 1.564 34 2,841 (2,415,3,267) - 1.097 (898,1,296) - 1.564 35 2,228 (1,246,5,2868) -1.16 1.097 (898,1,296) - 1.566 35 2,228 (1,246,5,2868) -0.15 1.097 (898,1,226) - 1.396 35 2,228 (1,246,5,2868) -0.15 1.097 (898,1,226) - 1.396 35 2,246 (2,288,30.11) - - 1.098 (921,1,244) - 1.396 36 2,506 (2,151,2,2661) -5.1 0.64 1.024 (860,1,167) -5.9 0.66 1.328 3707 3 2.144 (1,252,3,134) -1 1.024 (860,1,167) -5.9 0.66 1.324 3707 3 2.14 (1,252,3,134) 9.1 0.44 1.004 (945,1,274) 8.7 </td <td>35 2,726 (2,358,3,094) 18.7 0.15 34 2,841 (2,415,3,267) - - 35 2,257 (2,265,2868) - - 35 2,228 (1,266,2868) - - - 35 2,228 (1,266,2868) - - - - 35 2,228 (1,267,2745) -9.3 - <</td> <td>2,726 (2,358,3,094) 18.7 0.15 2,841 (2,415,3,267) - - 2,847 (2,415,3,267) - - 2,268 (1,846,26,268) -11.6 - 2,269 (2,288,3,011) - - 2,406 (2,067,2745) -9.3 0.64 2,596 (2,151,2,2681) - - 2,548 (2,215,2,529) -13.1 0.64 2,548 (2,225,3,134) 9.1 0.44 2,719 (1,2470,2,529) -13.1 0.44 2,719 (2,225,3,134) 9.1 0.44 2,719 (2,225,3,134) 9.1 0.44 2,719 (1,2470,2,528) -13.1 0.44 2,719 (1,2470,3,524) 9.1 0.44 2,719 (1,2470,3,524) 9.1 0.44 2,719 (1,2470,3,524) 9.1 0.44 2,719 (1,2472,5,314) 9.1 0.44 2,719 (2,425,314) 10.04</td> <td></td> <td>(820, 1, 1220) (820, 1, 1220) (891, 1, 203) (813, 1, 182) (814, 1, 131) (835, 1, 186) (817, 1, 182) (815, 1, 166) (817, 1, 182) (845, 1, 177) (845, 1, 177) (845, 1, 177) (844, 1, 207) (844, 1, 207)</td> <td></td> <td>0.17 0.52 0.88</td> <td>1,461 1,461 1,461 1,406 1,406 1,406 1,406 1,407 1,425 1,306 1,307 1,361</td> <td>(1.266,1.686) (1.244,1.676) (861,1.327) (1.189,1.623) (1.283,1.711) (1.283,1.711) (1.283,1.711) (1.283,1.711) (1.23,1.532) (1.070,1.543) (1.088,1.532) (1.088,1.532) (1.123,1.623) (1.123,1.623) (1.123,1.623)</td> <td>-20.5 -1.4 -26.2 -19.5 -19.5 -4.1 -4.1</td> <td>0.05 0.10 0.51</td>	35 2,726 (2,358,3,094) 18.7 0.15 34 2,841 (2,415,3,267) - - 35 2,257 (2,265,2868) - - 35 2,228 (1,266,2868) - - - 35 2,228 (1,266,2868) - - - - 35 2,228 (1,267,2745) -9.3 - <	2,726 (2,358,3,094) 18.7 0.15 2,841 (2,415,3,267) - - 2,847 (2,415,3,267) - - 2,268 (1,846,26,268) -11.6 - 2,269 (2,288,3,011) - - 2,406 (2,067,2745) -9.3 0.64 2,596 (2,151,2,2681) - - 2,548 (2,215,2,529) -13.1 0.64 2,548 (2,225,3,134) 9.1 0.44 2,719 (1,2470,2,529) -13.1 0.44 2,719 (2,225,3,134) 9.1 0.44 2,719 (2,225,3,134) 9.1 0.44 2,719 (1,2470,2,528) -13.1 0.44 2,719 (1,2470,3,524) 9.1 0.44 2,719 (1,2470,3,524) 9.1 0.44 2,719 (1,2470,3,524) 9.1 0.44 2,719 (1,2472,5,314) 9.1 0.44 2,719 (2,425,314) 10.04		(820, 1, 1220) (820, 1, 1220) (891, 1, 203) (813, 1, 182) (814, 1, 131) (835, 1, 186) (817, 1, 182) (815, 1, 166) (817, 1, 182) (845, 1, 177) (845, 1, 177) (845, 1, 177) (844, 1, 207) (844, 1, 207)		0.17 0.52 0.88	1,461 1,461 1,461 1,406 1,406 1,406 1,406 1,407 1,425 1,306 1,307 1,361	(1.266,1.686) (1.244,1.676) (861,1.327) (1.189,1.623) (1.283,1.711) (1.283,1.711) (1.283,1.711) (1.283,1.711) (1.23,1.532) (1.070,1.543) (1.088,1.532) (1.088,1.532) (1.123,1.623) (1.123,1.623) (1.123,1.623)	-20.5 -1.4 -26.2 -19.5 -19.5 -4.1 -4.1	0.05 0.10 0.51
34 2,841 (2,415,3,267) - 1,097 (898,1,296) - 1,586 Intake, tertiles 35 2,237 (2,405,2,266) - 1,097 (988,1,296) - 1,586 35 2,238 (1,245,2,267) - 1,097 (988,1,286) - 1,586 35 2,238 (1,246,2,260) - 1,086 (921,1,226) - 1,196 35 2,246 (2,288,30,11) - 1,088 (921,1,254) - 1,406 35 2,406 (2,27,3) 5,1 0,64 1,024 (860,1,187) - 1,406 36 2,214 (1,270,2,58) - 1,226 1,234 1,324 3707 35 2,214 (1,270,2,58) - 1,226 1,232 1,236 36 2,779 (2,323,3;34) 9,1 0,44 1,024 (860,1,187) - 1,257 35 2,179 (1,225,3,3;34) 9,1 0,44 1,109	34 2,841 (2,415, 3,267) - 35 2,251 (2,265, 2,868) -11.6 34 2,281 (2,415, 3,267) - 35 2,252 (2,465, 2,868) -0.16 34 2,649 (2,288, 3,011) - 35 2,2406 (2,267, 2,745) -9.3 35 2,506 (2,151, 2,861) 5.1 0.64 35 2,214 (2,200, 2,887) - - 34 2,448 (2,200, 2,887) - - 35 2,214 (2,200, 2,887) - - 36 2,214 (2,200, 2,887) - - 37 2,214 (2,200, 2,887) - - 36 2,779 (2,425, 3,134) 0.44 0.44 37 2,741 (2,425, 3,134) 0.44 0.44 38 2,179 (2,425, 3,134) 0.44 0.44 39 2,179 (2,425, 3,134) 0.44 0.44 <	2,841 (2,415, 3,267) - 2,237 (2,206, 2,268) - 0.08 2,228 (1,246, 2,261) - 0.08 2,649 (2,288, 3,011) - - 2,406 (2,007, 2,745) - - 2,406 (2,151, 2,261) - - 2,406 (2,151, 2,261) - 1.0,64 2,258 (2,209, 2,887) - 1.2,29 2,254 (2,209, 2,887) - 1.0,64 2,259 (2,425, 3,134) 9,1 0.64 2,279 (2,425, 3,134) 9,1 0.44 2,779 (2,425, 3,134) 9,1 0.44 2,779 (2,425, 3,134) 9,1 0.44 2,779 (2,425, 3,134) 9,1 0.44 2,719 (2,425, 3,134) 9,1 0.44 2,719 (2,425, 3,134) 9,1 0.44 2,719 (2,425, 3,134) 9,1 0.44 2,719 (2,425, 3,134) 1.0 1		(820, 1, 1220) (820, 1, 1220) (821, 1, 1203) (814, 1, 1203) (814, 1, 1203) (814, 1, 131) (815, 1, 1462) (865, 1, 1444) (845, 1, 1477) (813, 1, 1481) (845, 1, 1477) (813, 1, 1481) (844, 1, 1277) (814, 1, 1470) (845, 1, 1470) (847, 1, 1470) (847, 1, 1470) (848, 1, 1470) (847, 1470) (847, 1470) (847, 1470) (847, 1470) (847, 1470) (847, 1470) (847, 1470		0.17 0.52 0.88	1,461 1,461 1,461 1,406 1,406 1,406 1,407 1,407 1,407 1,425 1,306 1,307 1,305	(1,007, 1,070) (1,266, 1,686) (1,244, 1,676) (861, 1,327) (1,189, 1,623) (1,189, 1,623) (1,23, 1,711) (1,23, 1,352) (1,070, 1,543) (1,190, 1,661) (1,123, 1,600) (1,123, 1,623) (1,073, 1,538) (1,073, 1,538)	-26.2 -1.4 -26.2 -27.2 -	0.05 0.10 0.51
35 2,37 (2,205, 1,268) 11.6 (1072 (161,126) 2,3 (1307) Intake, tertiles 3 2,288 (1,365, 2,10) -20.9 0.08 9022 (161,126) 2,3 (1,367) 34 2,649 (2,288, 3,011) - 1,068 (921, 1,254) - 1,466 35 2,366 (2,215, 1,2861) -5.1 0.64 1,024 (860, 1,187) -5.9 0.66 1,324 36 2,276 (2,15, 1, 2,861) -5.1 0.64 1,024 (860, 1,187) -5.9 0.66 1,324 370/11 34 2,279 (2,125, 3,280) -1 1,024 (860, 1,187) -5.9 0.66 1,324 35 2,279 (2,125, 3,134) -1 1,021 (761, 1,061) -9.8 1,157 35 2,279 (2,125, 3,134) -1 0.44 1,109 (45, 1,274) 8.7 0.51 1,521 36 2,279 (2,125, 3,134) -1 1	35 2:57 (2:26(5, 2:86)) -11.6 35 2:278 (1:86, 2:610) -20.9 0.08 34 2:649 (2:28, 3;011) - - 34 2:640 (2:28, 3;011) - - 35 2:266 (2:151, 2:861) -5.1 0.64 35 2:214 (1:270, 2:59) -1.1 - 36 2:214 (1:270, 2:59) -1.1 - 36 2:214 (1:270, 2:59) -1.1 - 37 2:214 (1:270, 2:59) -1.1 - - 36 2:214 (1:270, 2:59) -1.1 - - - 37 2:799 (2:425, 3:14) 9.1 0.44 - - - - - 35 2:719 (1:425, 3:14) 9.1 0.44 - - - - - - - - - - - - - - - -	2,557 (2,205, 2,868) -11.6 2,528 (1,846, 2,610) -20.9 0.08 2,246 (2,288, 3,011) - - 2,466 (2,067, 2,745) -3.3 - 2,569 (2,151, 2,861) -5.1 0.64 2,568 (2,151, 2,861) -13.1 0.64 2,579 (1,870, 2,559) -13.1 0.44 2,2714 (1,870, 2,559) -9.1 0.44 2,584 (2,245, 3,134) 9.1 0.44 2,514 1,870, 2,559) -9.1 0.44 2,514 (1,870, 2,559) 9.1 0.44 2,517 10,44 0.44 - 2,518 apti-inflammatory drug; OD, optical density: - batch age analysis: - - group mean) / (reference group mean) x 100%. - -		(820, 1, 1220) (820, 1, 1220) (821, 1, 1203) (873, 1, 1203) (873, 1, 1203) (873, 1, 1203) (873, 1, 1203) (873, 1, 1203) (814, 1, 131) (845, 1, 1462) (845, 1, 1477) (849, 1, 1470) (849, 1, 1470) (849, 1, 1470) (849, 1, 1470) (849, 1, 1470) (849, 1, 1470)		0.17 0.52 0.88 0.77	1,461 1,461 1,461 1,406 1,406 1,406 1,407 1,407 1,407 1,407 1,425 1,306 1,307 1,305 1,305	(1,266,1,686) (1,246,1,676) (861,1,327) (1,189,1,623) (1,283,1,711) (1,283,1,711) (1,283,1,711) (1,283,1,711) (1,213,1,522) (1,070,1,548) (1,190,1,661) (1,123,1,600) (1,123,1,623) (1,073,1,538) (1,073,1,538) (1,073,1,538) (1,073,1,538) (1,073,1,538) (1,073,1,538) (1,073,1,538)	-262 -1.4 -262 -262 -195 -195 -112 -112 -112 -112 -112 -112 -112 -11	0.05 0.10 0.51
Intade, terriles 35 2,228 (1,246, 2,610) -20.9 0.08 902 (7,4, 1,060) -17.8 0.23 1,196 34 2,646 (2,268, 3,011) - 1,066 (821, 1,24) - 1,406 35 2,646 (2,267, 2,745) 9.3 .948 (792, 1,104) -1.2.8 1,324 1,071 34 2,546 (2,205, 2,877) 5.1 0.64 1,024 (860, 1,187) 5.9 0.66 1,328 1,071 34 2,548 (2,205, 2,877) 1.1 1,020 (863, 1,178) 1,327 35 2,744 (1,870, 2,559) 1.3.1 0.44 1,020 (863, 1,178) 1,370 35 2,214 (1,870, 2,559) 1.3.1 0.44 1,109 (945, 1,274) 8,7 0.51 1,157 36 1,2174 1,107 .5.9 0.51 1,152 1,157 370 1,244 1,109 (945, 1,274) 8,7 <t< td=""><td>Mitake, tertiles 35 2,228 (1,846, 2,610) -20.9 0.08 34 2,649 (2,288, 3,011) -</td><td>2,228 (1,846,2,610) -20.9 0.08 2,2466 (2,067,2,745) -9.3 2,566 (2,151,2,2661) -5.1 0.64 2,548 (2,209,2,867) - 2,214 (1,870,2,559) -13.1 0.64 2,214 (1,870,2,559) -13.1 0.64 2,214 (1,870,2,559) -9.1 0.44 2,214 (1,870,2,559) -9.1 0.44 2,217 9 (1,4870,2,559) -13.1 0.64 2,217 9 (1,4870,2,559) -13.1 0.64 2,217 9 1.0 0.06 2,217 9 1.0 0.06 2,217 9 1.0 0.06 2,217 9 1.0</td><td></td><td>(820, 1129) (820, 1129) (820, 1129) (814, 1126) (814, 1120) (814, 1131) (814, 1131) (815, 1166) (855, 1184) (855, 1184) (845, 1170) (819, 1170) (819,</td><td></td><td>0.17 0.52 0.88 0.81</td><td>1,461 1,461 1,461 1,461 1,406 1,406 1,407 1,406 1,407</td><td>(1,266, 1,689) (1,244, 1,678) (861, 1,327) (1,189, 1,623) (1,283, 1,711) (912, 1,322) (1070, 1,543) (1,198, 1,522) (1,198, 1,522) (1,198, 1,523) (1,123, 1,663) (1,123, 1,538) (1,108, 1,538) (1,108, 1,550) (1,108, 1,550) (1,108, 1,550) (1,108, 1,550) (1,307, 1,866)</td><td>-262 -1.4 -262 -195 -195 -195 -12 -12 -12 -12 -12 -12 -12 -12 -12 -12</td><td>0.05 0.10 0.74</td></t<>	Mitake, tertiles 35 2,228 (1,846, 2,610) -20.9 0.08 34 2,649 (2,288, 3,011) -	2,228 (1,846,2,610) -20.9 0.08 2,2466 (2,067,2,745) -9.3 2,566 (2,151,2,2661) -5.1 0.64 2,548 (2,209,2,867) - 2,214 (1,870,2,559) -13.1 0.64 2,214 (1,870,2,559) -13.1 0.64 2,214 (1,870,2,559) -9.1 0.44 2,214 (1,870,2,559) -9.1 0.44 2,217 9 (1,4870,2,559) -13.1 0.64 2,217 9 (1,4870,2,559) -13.1 0.64 2,217 9 1.0 0.06 2,217 9 1.0 0.06 2,217 9 1.0 0.06 2,217 9 1.0		(820, 1129) (820, 1129) (820, 1129) (814, 1126) (814, 1120) (814, 1131) (814, 1131) (815, 1166) (855, 1184) (855, 1184) (845, 1170) (819,		0.17 0.52 0.88 0.81	1,461 1,461 1,461 1,461 1,406 1,406 1,407 1,406 1,407	(1,266, 1,689) (1,244, 1,678) (861, 1,327) (1,189, 1,623) (1,283, 1,711) (912, 1,322) (1070, 1,543) (1,198, 1,522) (1,198, 1,522) (1,198, 1,523) (1,123, 1,663) (1,123, 1,538) (1,108, 1,538) (1,108, 1,550) (1,108, 1,550) (1,108, 1,550) (1,108, 1,550) (1,307, 1,866)	-262 -1.4 -262 -195 -195 -195 -12 -12 -12 -12 -12 -12 -12 -12 -12 -12	0.05 0.10 0.74
34 2,649 (2,288,3011) - 1,088 (921,1,254) - 1,406 35 2,460 (2,087,2745) -3 4,068 (782,1104) -1.3 1,324 18/mL 34 2,548 (2,209,2877) -5.1 0.64 1,024 (802,1104) -1.3 1,328 18/mL 34 2,548 (2,209,2877) - 1,020 (863,1,178) - 1,326 35 2,214 (1,870,2559) -13.1 0.44 921 (761,1,081) -9.8 1,157 35 2,219 (2,425,3,134) 9.1 0.44 1,109 (945, 1,274) 8.7 0.51 1,521 nce interval; N SNID, non-steroidal anti-inflammatory drug: OD, optical density. 5.3 0.51 1,521 1,521 eti amuunbistochemistry with mage analysis. 1 1,109 (945, 1,274) 8.7 0.51 1,521 et immunbistochemistry with mage analysis. 1 1 1,205%. 1,500%. 1	34 2,649 (2,288, 3,011) - 35 2,406 (2,067, 2,745) -9.3 36/mL 34 2,548 (2,009, 2,887) - 36 2,406 (2,270, 2,745) -9.3 - 37 2,548 (2,209, 2,887) - - 35 2,214 (1,870, 2,559) -13.1 0,44 35 2,214 (1,870, 2,559) -0.91 - 170:up nesiteroidal anti-inflammatory drug, OD, optical density, ets, adjusted for stahing barch. - - et immunohistochemistry with image analysis. r - - rooup nean - reference group mean) / (reference group mean) x 100%. - 100%.	2,649 (2,288, 3,011) 2,466 (2,067, 2,745) 2,506 (2,151, 2,861) 5.1 0.64 2,518 (2,209, 2,287) - 2,214 (1,870, 2,559) -13.1 0.44 2,2179 <u>9,1 0,44</u> 2,2174 (1,870, 2,559) -0.0, optical density. 54eroidal anti-inflammatory drug: 00, optical density. 54eroidal density. 54eroidal density. 54eroidal density. 54eroidal density. 55eroidal density. 55ero		(820, 1, 1220) (820, 1, 1220) (812, 1, 1203) (813, 1, 1203) (814, 1, 131) (814, 1, 131) (815, 1, 146) (855, 1, 164) (855, 1, 164) (855, 1, 164) (854, 1, 177) (819, 1, 161) (817, 1, 170) (819, 1, 166) (866, 1, 1966) (866, 1, 1266) (816, 1, 226)		0.17 0.52 0.88 0.77	1,461 1,461 1,094 1,461 1,406	(1.266, 1.689) (1.244, 1.678) (861, 1.327) (1.188, 1.623) (1.182, 1.711) (912, 1.323, 1.711) (912, 1.322) (1070, 1.543) (1.088, 1.522) (1.073, 1.543) (1.193, 1.600) (1.122, 1.623) (1.073, 1.538) (1.073, 1.538) (1.073, 1.538) (1.073, 1.536) (1.307, 1.866) (1.307, 1.866) (1.090, 1.524)	-26.2 -1.4 -26.2 -26.2 -1.4 -1.5 -1.5 -1.5 -1.7 -1.7 -1.7 -1.7 -1.7 -1.7 -1.7 -1.7	0.03 0.10 0.74
35 2,406 (2,067, 27,45) 9,3 9,46 (702, 1104) -1,2.8 1,324 37 2,966 (2,151, 2,861) -5.1 0.64 1,024 (802, 1104) -1.2.8 1,328 38 2,948 (2,209, 2,851) - 1,020 (803, 1,178) - 1,328 35 2,214 (1,870, 2,59) -1.1 1,020 (803, 1,178) - 1,3270 35 2,214 (1,2870, 2,59) -1.1 921 (761, 1,061) -9.8 1,1570 36 2,7791 (2,425, 3,134) 9.1 0.44 1,109 (945, 1,274) 8.7 0.51 1,521 nce Interval; IV SND, converse ordal ant Hinflammatory drug; OD, optical density. 1,521 1,521 1,521 1,521 ets, adjusted for scialing batch. 1 1,009 (945, 1,274) 8.7 0.51 1,521 ets, adjusted for scialing batch. 1 1,00%. 1,521 1,521 1,521 rgoup mean - reference group mean) / (reference group mean) x 100%. <td< td=""><td>35 2,406 (2,067, 27,45) -9.3 35 2,506 (2,151, 2,861) -5.1 0.64 34 2,548 (2,209, 2,887) - - 35 2,214 (1,870, 2,559) -1.1 - - 36 2,214 (1,870, 2,559) -1.3 - - - 36 2,214 (1,870, 2,559) -1.3 - - - - accinterval, INSAD, non-steroidal ant-inflammatory drug; OD, optical density, eds, adjusted for staining batch. -</td><td>2,246 (2,067, 2,745) -5,1 0,64 2,596 (2,151, 2,867) -5,1 0,64 2,548 (2,209, 2,587) -1,3,1 0,44 2,2179 (2,425, 3,134) 9,1 0,44 -steroidal ant-inflummatory drug: 00, optical density- statich statistics batch statistics analysis. e group mean) / (reference group mean) x 100%.</td><td></td><td>(820, 1, 1220) (820, 1, 1220) (873, 1, 128) (873, 1, 1822) (874, 1, 131) (814, 1, 131) (814, 1, 131) (814, 1, 131) (814, 1, 132) (815, 1, 164) (815, 1, 164) (819, 1, 161) (819, 161) (81</td><td></td><td>0.17 0.52 0.88 0.81</td><td>1,461 1,461 1,461 1,406</td><td>(1,00%), (1,124,1,678) (1,244,1,678) (861,1,327) (1,189,1,623) (1070,1,543) (1070,1,543) (1,088,1,532) (1,088,1,532) (1,102,1,626) (1,132,1,620) (1,132,1,620) (1,132,1,628) (1,132,1,62</td><td>-403 -1.4 -26.2 -26.2 -1.5 -1.5 -1.5 -1.5 -1.5 -1.5 -1.7 -1.7 -1.7 -1.7 -2.4.6</td><td>0.03 0.10 0.51 0.74</td></td<>	35 2,406 (2,067, 27,45) -9.3 35 2,506 (2,151, 2,861) -5.1 0.64 34 2,548 (2,209, 2,887) - - 35 2,214 (1,870, 2,559) -1.1 - - 36 2,214 (1,870, 2,559) -1.3 - - - 36 2,214 (1,870, 2,559) -1.3 - - - - accinterval, INSAD, non-steroidal ant-inflammatory drug; OD, optical density, eds, adjusted for staining batch. -	2,246 (2,067, 2,745) -5,1 0,64 2,596 (2,151, 2,867) -5,1 0,64 2,548 (2,209, 2,587) -1,3,1 0,44 2,2179 (2,425, 3,134) 9,1 0,44 -steroidal ant-inflummatory drug: 00, optical density- statich statistics batch statistics analysis. e group mean) / (reference group mean) x 100%.		(820, 1, 1220) (820, 1, 1220) (873, 1, 128) (873, 1, 1822) (874, 1, 131) (814, 1, 131) (814, 1, 131) (814, 1, 131) (814, 1, 132) (815, 1, 164) (815, 1, 164) (819, 1, 161) (819, 161) (81		0.17 0.52 0.88 0.81	1,461 1,461 1,461 1,406	(1,00%), (1,124,1,678) (1,244,1,678) (861,1,327) (1,189,1,623) (1070,1,543) (1070,1,543) (1,088,1,532) (1,088,1,532) (1,102,1,626) (1,132,1,620) (1,132,1,620) (1,132,1,628) (1,132,1,62	-403 -1.4 -26.2 -26.2 -1.5 -1.5 -1.5 -1.5 -1.5 -1.5 -1.7 -1.7 -1.7 -1.7 -2.4.6	0.03 0.10 0.51 0.74
35 2,56 (2,151, 2,861) 5.1 0.64 1,024 (860, 1,187) 5.9 0.66 1,228 34 2,548 (2,200, 2,857) - 1,024 (860, 1,187) - 1,370 35 2,279 (1,470, 2,559) - 1,024 (860, 1,178) - 1,370 35 2,279 (1,470, 2,559) - 1,024 (861, 1,178) - 1,370 35 2,779 (1,425, 3,34) 9.1 0.44 1,109 (945, 1,274) 8.7 0.51 1,527 roce interval; INSUD, non-steerodial arti-inflammatory drug; OD, optical density. - 1,127	35 2,56 (2,15), 2,861 -5.1 0.64 35 2,56 (2,15), 2,871 -	2,506 (2,151, 2,861) 5.1 0.64 (2,209, 2,867) - 2,214 (1,870, 2,59) -13.1 2,779 (2,425, 3,134) 9.1 0.44 :sterodal art-inflammatory drug; OD, optical density. batch: y with image analysis. e group mean) / (reference group mean) x 100%.		(820, 1, 129) (820, 1, 129) (820, 1, 129) (814, 1, 120) (814, 1, 120) (814, 1, 131) (814, 1, 131) (815, 1, 146) (845, 1, 147) (845, 1, 147) (844, 1, 177) (819, 1, 146) (846, 1, 146) (846, 1, 146) (846, 1, 147) (846, 1, 147) (848, 1, 296) (724, 1, 1620) (724, 1, 1620)		0.17 0.52 0.88 0.88 0.88	1,461 1,461 1,461 1,406	(1.026, 1.680) (1.244, 1.676) (861, 1.327) (1.189, 1.623) (1.283, 1.711) (1.283, 1.711) (1.283, 1.711) (1.283, 1.711) (1.212, 1.352) (1070, 1.532) (1070, 1.532) (1.088, 1.532) (1.123, 1.623) (1.123, 1.623) (1.123, 1.623) (1.123, 1.623) (1.123, 1.624) (1.124, 1.661) (1.126, 1.801) (1.126, 1.866) (1.1307, 1.546) (1.1307, 1.546) (1.1460, 1.546) (1.1460, 1.546) (1.1460, 1.546) (1.156	-200 -1.4 -1.4 -1.5 -1.9 -1.5 -1.4 -1.5 -1.5 -1.4 -1.2 -1.7 -1.7 -1.7 -1.7 -1.7 -1.7 -1.2 -1.7 -1.4 -1.4 -1.4 -1.4 -1.4 -1.4 -1.4 -1.4	0.05 0.10 0.51 0.74
approx 34 2.548 (2.209, 2.887) - 1,020 (863, 1,178) - 1,370 35 2.214 (1.870, 2.559) -13.1 921 (761, 1,081) -9.8 1,157 35 2.214 (1.870, 2.559) -13.1 921 (761, 1,081) -9.8 1,157 36 cre-interval; NSUD, on-steroidal anti-inflammatory drug; OD, optical density. 64 1,109 (945, 1,274) 8.7 0.51 1,521 els, adjusted for staining batch. el immunohistochemistry with image analysis. 1,90up mean - reference group mean) / (reference group mean) x 100%. t 1,00%. 1,00%.	'Byml) 34 2,548 (2,209, 2,887) - 35 2,214 (1,870, 2,559) -13.1 0.44 35 2,214 (1,870, 2,559) -11.0 0.44 35 2,214 (1,870, 2,559) -11.0 0.44 35 2,214 (1,870, 2,559) -11.0 0.44 35 2,214 (1,870, 2,559) -12.0 0.44 36 reinterval; NS4D, pon-steroidal anti-Inflammatory drug; OD, optical density, els, adjusted for staining batch.	2,548 (2,209,2,887) - 2,214 (1,870,2,559) -13.1 2,2779 (2,425,3,134) 9.1 0.44 -steroidal anti-inflammatory drug; OD, optical density. batch batch mage analysis. 2 group mean) / (reference group mean) x 100%.		(820, 1129) (820, 1129) (821, 1120) (814, 1,120) (814, 1,131) (814, 1,131) (815, 1,166) (855, 1,184) (855, 1,184) (845, 1,177) (819, 1,161) (844, 1,207) (819, 1,161) (844, 1,207) (844, 1,207) (844, 1,207) (844, 1,207) (846, 1,170) (846, 1,170) (847, 1,126) (847, 1,126) (847, 1,170) (847, 1,170) (848, 1,170) (848, 1,170) (848, 1,170) (848, 1,170) (849, 1,		0.17 0.52 0.88 0.81	1,461 1,461 1,461 1,461 1,461 1,406	(1,266,1,688) (1,244,1,678) (1,264,1,327) (1,189,1,623) (1,182,1,711) (912,1,322) (1070,1,543) (1,190,1,654) (1,190,1,654) (1,190,1,654) (1,192,1,620) (1,123,1,636) (1,102,1,536) (1,102,1,547) (1,961,1,447)	-26-2 -1.4 -26-2 -26-2 -19-5 -19-5 -19-5 -2-17-6 -2-17-6 -2-17-6 -2-17-6 -2-17-6 -2-17-6 -2-17-6 -2-17-6 -2-16-1 -2-16	0.03 0.10 0.51 0.03
35 2,214 (1,202),2209 -13.1 (1,202) 36 2,214 (1,202),23.9 -13.1 (1,202) nei interval; NSAD, non-steroidal anti-inflammatory drug: OD, optical density. ets. adjusted for stahing batch. et immunohistochemistry with mage: analysis. et immunohistochemistry with mage: analysis. et immunohistochemistry of mean // (reference group mean) x 100%. c.	35 2,214 (1,870,2,529) -13.1 0,44 35 2,214 (1,870,2,529) -13.1 0,44 nce interval; NSAID, poi-steroidal anti-inflammatory drug; OD, optical density, ets, adjusted for staining batch.	2,214 (1.870, 2,259) -13.1 2,2179 (2,425, 3,134) 9.1 0.44 steroidal anti-inflammatory drug; OD, optical density. batch in a paralysis. 9 youth image analysis. 9 group mean) / (reference group mean) x 100%.		(820, 1, 1220) (820, 1, 1220) (812, 1, 1203) (813, 1, 1203) (814, 1, 1312) (814, 1, 1312) (814, 1, 1312) (814, 1, 1312) (815, 1, 1462) (815, 1, 1462) (815, 1, 1472) (814, 1, 1777) (814, 1, 1777) (814, 1, 1777) (815, 1, 1660) (816, 1, 1777) (816, 1, 1254) (816, 1, 1254) (817, 1, 1776) (818, 1, 2266) (918, 1, 2266) (918, 1, 2266) (918, 1, 2264) (918,		0.17 0.52 0.88 0.88 0.81 0.81	1,461 1,465 1,465	(1,266, 1,680) (1,244, 1,676) (861, 1,327) (1,186, 1,623) (1,186, 1,523) (1,070, 1,543) (1,086, 1,532) (1,190, 1,661) (1,190, 1,661) (1,193, 1,539) (1,073, 1,539) (1,073, 1,539) (1,307, 1,864) (1,307, 1,864) (1,060, 1,524) (1,106, 1,643) (1,106, 1,643)	-26-2 -1.4 -1.4 -26.2 -1.5 -1.4 -1.5 -1.2 -1.2 -1.2 -1.2 -1.2 -1.2 -1.2 -1.2	0.03 0.10 0.74 0.03 0.03
<u>35</u> <u>2,779</u> (2,425,3,134) <u>9,1</u> 0,44 <u>1,109</u> (945,1,274) <u>8,7</u> 0,51 <u>1,521</u> nee interval; NSND, non-steroidal ant Hinflammatory drug: OD, optical density. els, adjusted for staining batch. ed immunohistochemistry with image analysis. er group mean - reference group mean) / (reference group mean) x 100%.	35 2.79 (2.425, 3.134) 91 0.44 nce interval; NSAID, non-steroidal ant-inflammatory drug; OD, optical density, els, adjusted for staining batch. ed immunohistochemistry with image analysis. group mean - reference group mean) / (reference group mean) x100%.	2.779 (2.425, 3.134) 9.1 0.44 steroidal ant-inflammatory drug: OD, optical density. batch. ry with image analysis. group mean) / (reference group mean) x 100%.		(820, 1, 129) (820, 1, 129) (821, 1, 120) (873, 1, 128) (873, 1, 182) (874, 1, 131) (814, 1, 131) (814, 1, 131) (814, 1, 136) (855, 1, 166) (855, 1, 164) (841, 1, 177) (819, 1, 161) (819, 1, 161) (819, 1, 161) (814, 1, 270) (816, 1, 177) (818, 1, 264) (921, 1, 254) (825, 1, 164) (826, 1, 166)		0.17 0.52 0.88 0.77 0.77 0.81	1,200 1,200 1,461 1,465	(1,076, 1,777) (1,246, 1,688) (1,244, 1,678) (861, 1,327) (1,188, 1,623) (1070, 1,543) (1,188, 1,532) (1,108, 1,532) (1,108, 1,532) (1,123, 1,660) (1,123, 1,660) (1,123, 1,560) (1,123, 1,562) (1,124, 1,562) (1,126, 1,544) (1,168, 1,544) (1,168, 1,562) (1,168, 1,562)	-26-2 -1.4 -1.4 -1.5 -1.5 -1.5 -1.5 -1.1 -1.1 -1.1 -1.1	0.05 0.10 0.51 0.74 0.03
nce intervai; NSAID, non-steroidal anti-inflammatory drug; OD, optical density. ed. adjusted for staining batch. 1 group mean- reference group mean) / (reference group mean) x 100%. c.	fidence interval; NSAID, non-steroidal anti-Inflammatory drug; OD, optical density. models, adjusted for stahing batch. rm ated immunohistochemistry with image analysis. group mean - reference group mean) / (reference group mean) x 100%. week.	steroidal anti-inflammatory drug; OD, optical density. bath. ry with image analysis. a group mean) / (reference group mean) x 100%.		(820, 1129) (820, 1129) (821, 1203) (814, 1128) (814, 1128) (814, 1131) (814, 1131) (815, 1166) (855, 1146) (845, 1177) (849, 1161) (849, 1161) (849, 1161) (849, 1161) (849, 1126) (849, 1126) (840, 1126) (840, 1126) (840, 1126) (841,		0.17 0.52 0.88 0.77 0.81	1,406 1,461 1,461 1,461 1,406 1,306 1,406 1,306 1,406 1,306	(1,2047, 1,474) (1,226, 1,628) (1,244, 1,678) (1,189, 1,623) (1,283, 1,711) (912, 1,327) (1,070, 1,543) (1,084, 1,532) (1,073, 1,543) (1,123, 1,663) (1,123, 1,623) (1,123, 1,623) (1,123, 1,623) (1,123, 1,538) (1,123, 1,538) (1,123, 1,538) (1,123, 1,547) (1,126, 1,247) (1,168, 1,547) (1,168, 1,543) (1,164, 1,562) (1,164,	-400 -1.4 -1.4 -1.5 -1.5 -1.5 -1.7 -1.7 -1.7 -1.7 -1.7 -1.7 -1.7 -1.7	0.05 0.10 0.51 0.03 0.03 0.03
rear modes, adjusted tor staning batch. 3 automated immunohistochemistry with image analysis. nonparison group mean - reference group mean) / (reference group mean) x 100%.	nodes, adjusted tor staning batch. mated immunohistochemistry with image analysis. irrison group mean - reference group mean) / (reference group mean) x 100%. week.	batch. ry with image analysis. 2 group mean) / (reference group mean) x 100%.		(802), 1,220) (802), 1,220) (812), 1,203) (814, 1,131) (814, 1,131) (814, 1,131) (815, 1,166) (855, 1,184) (855, 1,184) (845, 1,177) (819, 1,161) (844, 1,207) (844, 1,207) (844, 1,207) (844, 1,207) (846, 1,170) (846, 1,170) (846, 1,170) (846, 1,126) (846, 1,127) (846, 1,126) (846, 1,126) (846, 1,127) (846, 1,126) (846, 1,127) (846, 1,126) (846, 1,127) (846, 1,126) (846, 1,177) (846, 1,177) (847, 1,174) (847, 1,174) (8		0.17 0.52 0.88 0.81 0.81 0.23 0.23	1,461 1,461 1,461 1,461 1,461 1,406	(1.266, 1.698) (1.244, 1.678) (861, 1.327) (1.188, 1.623) (1.182, 1.721) (912, 1.322) (1070, 1.543) (1.198, 1.522) (1.088, 1.522) (1.192, 1.663) (1.192, 1.663) (1.023, 1.538) (899, 1.391) (1.192, 1.538) (1.084, 1.550) (1.090, 1.524) (1.090, 1.524) (1.091, 1.547) (1.094, 1.466, 1.562) (1.094, 1.562) (1.094, 1.562) (1.144, 1.593) (1.144, 1.593) (1.144, 1.593) (1.284, 1.743)	-26-2 -1.4 -26-2 -26-2 -1.5 -1.5 -1.5 -1.1 -2.4 -2.4 -2.4 -2.4 -2.4 -2.4 -2.5 -2.4 -1.1 -2.5 -2.5 -2.5 -2.5 -2.5 -2.5 -2.5 -2.5	0.05 0.10 0.74 0.69
j automated immunohistochemistry with image analysis. Jonparison group mean – reference group mean) / (reference group mean) x 100%. rze a week	mated immunohistochemistry with image analysis. irison group mean - reference group mean) / (reference group mean) x 100%. week.	v with image analysis. group mean) / (reference group mean) x 100%.		(820, 1, 129) (820, 1, 129) (821, 1, 120) (814, 1, 131) (814, 1, 131) (8		0.17 0.52 0.88 0.81 0.81 0.81 0.81	1,461 1,465 1,465	(1.266, 1.680) (1.244, 1.676) (861, 1.327) (1.189, 1.623) (1.189, 1.623) (1.070, 1.543) (1.080, 1.532) (1.100, 1.661) (1.123, 1.600) (1.123, 1.600) (1.124, 1.600) (1.264, 1.446) (1.060, 1.524) (1.168, 1.643) (1.168, 1.643) (1.168, 1.543) (1.168, 1.543) (1.168, 1.543) (1.164, 1.563) (1.168, 1.543) (1.164, 1.563) (1.168, 1.563) (1.164, 1.563) (1.164, 1.563) (1.164, 1.563) (1.164, 1.563) (1.164, 1.563) (1.164, 1.563) (1.164, 1.563) (1.164, 1.563) (1.164, 1.563) (1.168, 1.563) (1.164, 1.563) (1.168, 1.563) (1.164, 1.563) (1.168, 1.563) (1.164, 1.563) (1.168, 1.563) (1.164, 1.563) (1.168,	-26-2 -1.4 -1.4 -26.2 -1.5 -1.5 -1.5 -1.5 -1.5 -1.5 -1.5 -1.5	0.05 0.10 0.74 0.69
omparison group mean - reterence group mean) / (reterence group mean) x 100%. rre a week:	rison group mean - reterence group mean) / (reterence group mean) x 100%. week.	group mean) / (reference group mean) x 100%.		(820, 1129) (820, 1129) (820, 1129) (821, 1203) (814, 1,1203) (814, 1,1203) (814, 1,131) (814, 1,131) (814, 1,1162) (845, 1,161) (845, 1,170) (846, 1,197) (846, 1,197) (846, 1,197) (846, 1,1264) (742, 1,1264) (742, 1,1264) (745, 1,1274)		0.17 0.52 0.88 0.77 0.77 0.81 0.66 0.66	1,461 1,461 1,461 1,461 1,461 1,406 1,407	(1.266, 1.689) (1.244, 1.678) (861, 1.327) (1.283, 1.711) (912, 1.322) (1070, 1.543) (1.123, 1.623) (1.088, 1.532) (1.081, 1.532) (1.081, 1.532) (1.123, 1.603) (1.123, 1.603) (1.123, 1.623) (1.123, 1.623) (1.123, 1.623) (1.123, 1.623) (1.123, 1.623) (1.123, 1.623) (1.123, 1.623) (1.123, 1.623) (1.124, 1.532) (1.104, 1.547) (1.104, 1.542) (1.104, 1.542) (1.128, 1.754)	-26.2 -1.4 -26.2 -26.2 -1.4 -26.2 -1.4 -1.4 -1.4 -1.5 -2.4 -2.4 -2.4 -2.4 -2.4 -2.4 -2.5 -2.4 -2.5 -2.5 -2.5 -2.5 -2.5 -2.5 -2.5 -2.5	0.05 0.74 0.69 0.69
ire a week.	week.			(820, 1129) (820, 1129) (820, 1129) (812, 1120) (813, 1120) (814, 1,131) (814, 1,131) (815, 1,166) (815, 1,164) (815, 1,161) (815, 1,161) (815, 1,161) (815, 1,177) (819, 1,161) (819, 1,161) (819, 1,161) (819, 1,161) (819, 1,161) (819, 1,161) (819, 1,161) (819, 1,161) (819, 1,161) (811, 1,170) (812, 1,170) (813, 1,170) (814, 1,274) (814, 1,274) (815, 1,176) (815, 1,176) (815, 1,176) (816, 1,176) (817, 1,176) (817, 1,176) (818, 1,177) (819, 1,176)		0.17 0.52 0.88 0.81 0.81 0.23 0.23	1,462 1,461 1,461 1,461 1,406	(1.266, 1.693) (1.244, 1.676) (1.244, 1.676) (1.189, 1.227) (1.189, 1.711) (912, 1.322) (1070, 1.543) (1.190, 1.543) (1.190, 1.543) (1.192, 1.623) (1.102, 1.543) (1.102, 1.543) (1.102, 1.543) (1.103, 1.546) (1.003, 1.524) (1.004, 1.547) (1.004, 1.547) (1.148, 1.593) (1.148, 1.593)	-202 -1.4 -26.2 -26.2 -26.2 -1.5 -1.5 -1.5 -2.4 -2.4 -2.4 -2.4 -2.4 -2.4 -2.5 -2.5 -2.5 -2.5 -2.5 -2.5 -2.5 -2.5	0.05 0.03 0.51 0.69 0.69
				(820, 1, 1220) (820, 1, 1220) (8121, 1, 1283) (813, 1, 1282) (814, 1, 131) (814, 1, 131) (814, 1, 131) (815, 1, 166) (815, 1, 161) (815, 1, 161) (815, 1, 161) (815, 1, 161) (815, 1, 161) (815, 1, 161) (816, 1, 177) (817, 1, 170) (816, 1, 177) (816, 1, 1254) (721, 1, 1254) (721, 1, 1254) (816, 1, 177) (816, 1, 1254) (721, 1, 1254) (816, 1, 177) (816, 1, 1254) (721, 1, 1254) (724, 1, 1274) (724, 1, 1274) (725, 1, 1274)		0.17 0.52 0.88 0.81 0.81 0.81 0.23 0.23 0.23	1,461 1,465 1,455 1,455	(1,266, 1,680) (1,244, 1,676) (861, 1,327) (1,188, 1,623) (1,189, 1,623) (1,189, 1,623) (1,070, 1,543) (1,180, 1,661) (1,192, 1,662) (1,192, 1,662) (1,122, 1,623) (1,122, 1,623) (1,122, 1,623) (1,123, 1,530) (1,266, 1,361) (1,266, 1,546) (1,060, 1,5245) (1,040, 1,547) (1,040, 1,547) (1,041,	-26-2 -1.4 -1.4 -26-2 -19.5 -1	0.05 0.10 0.51 0.51 0.51 0.51 0.51 0.51

Characteristics	n mean(UU)	U %56 (U	dimetence (%) P-value	r-value	mean (OD)	32% CI						
					3 917	12 149 4 686)	-			(5 643 6 933)		
55 - 62 63 - 75	35 10,516 35 10,671	(9,476, 11,557) (9,612, 11,730)	1.5	0.70	3,818 4,354	(3,071, 4,566) (3,594, 5,115)	-2.5% 11.1%	0.46	6,363 6,363	(5,736, 6,990) (5,692, 6,968)	1.2 0.7	0.93
					200	10 DOE 1 OE1				10 NEE 0 0001		
Female	56 10,272	(9,550, 10,993)	-5.0	0.31	3,740	(3,208, 4,272)	-14.6%	0.11	6,159	(5,725, 6,594)	-5.6	0.26
use of aspirin				1		(o)=oo, .,,	1000 Contra 1			Action of the state		ļ
	64 10,496	(9,548, 11,443)	,		4,032	(3,347, 4,564)			6,313	(5,742, 6,883)		
			0.4	0.95	4,038	(3,511, 4,564)	0.2%	0.99	6,337	(5,898, 6,776)	0.4	0.95
Regular ^d use of other NSAID					1 277	13 653 5 100)			B 271	15 762 A 070)		
	35 10,481	(9,787, 11,176)	-1.1	0.85	3,862	(3,365, 4,360)	-11.8%	0.27	6,306	(5,888, 6,742)	-1.0	0.87
No No	96 10.460	/a san: 11.029)			4.007	13 595, 4,419)			6.298	15 954 6.641)		
		(9,127, 13,401)	7.7	0.48	4,373	(2,826, 5,919)	9.1%	0.65	6,688	(5,399, 7,977)	6.2	0.57
hysical activity	30 10.681	(9.549. 11.813)			3.913	13 101 4 726)			6.430	15 747 7 112)	,	
Moderate			1.1		3,707	(2,964, 4,450)	-5.3%		6,487	(5,863, 7,112)	0.9	
High Body mass index (kg/m ²)	27 10,255	(9,338, 11,171)	-4.0	0.51	4,435	(3,778, 5,093)	13.3%	0.25	6,167	(5,615, 6,719)	-4.1	0.50
	22 9,965	(8,692, 11,237)	ŀ		4,520	(3,604, 5,437)			5,992	(5,226, 6,759)	,	
25.0-29.9 ≥30	43 10,825 39 10.501	(9,942, 11,708) (9.545, 11,457)	5.4	0.62	3,801 4.020	(3,165, 4,437)	-11.1%	0.50	6,524 6.301	(5,992,7,055)	8.9 5.2	0.65
Total energy, tertiles		1 1 1 1								(
	34 9,877 35 11,477	(8,859, 10,895)	- 16.2		4,438	(3,690, 5,185)	-8.5%		5,980 6.870	(5,365,6,596) (6.268,7.472)	- 14.9	
	•		2.7	0.80	3,631	(2,923, 4,340)	-18.2%	0.12	6,097	(5,514, 6,680)	2.0	0.88
Saturated fat, tertiles										1		
	35 11,076	(10,115,12,036)	2.5		4,661	(3,971, 5,351)	21.9%		6,665	(6,089, 7,242)	2.0	
3 Total fat, tertiles	35 9,648	(8,601, 10,694)	-10. /	0.16	3,582	(2,830, 4,334)	-b.4%	0.78	5,700	(5,138, 6,395)	-111./	0.12
	34 11,190 35 10,507	(10,188,12,192) (9,554,11,460)	-6.1		3,973 4,283	(3,238, 4,708) (3,584, 4,981)	7.8%		6,717 6,358	(6,114,7,320) (5,784,6,931)	-5.4	
	35 9,868	(8,876, 10,861)	-11.8	0.07	3,836	(3,108, 4,563)	-3.5%	0.79	5,907	(5,310, 6,504)	-12.1	0.07
1	34 11,258	(10, 181, 12, 336)			3,871	(3,088, 4,654)			6,794	(6.145, 7,443)		
			-7.3 -12.2	0.09	3,772	(3,055, 4,490) (3,713, 5,203)	-2.6% 15.2%	0.29	6,235 5.967	(5,641 6,830) (5,350 6,585)	-8.2 -12.2	0.09
Total [®] calcium, tertiles						(a), tai aime -/		ļ	e je e i	Versei electri.		
			а. П		3,694	(2,926, 4,463)	71 00/		6,068 a ann	(5,424, 6,713)	, , ,	
	35 10,964	(9,953, 11,975)	8.3	0.27	4,490 3,927	(3,200, 4,653)	6.3%	0.77	6,566	(5,956, 7,175)	4./ 8.2	0.29
Dietary fiber, tertiles	10 500	10 166 11 711)			3 505	19 704 4 3061			175 9	15 663 7 0001		
		(9,197, 11,390)	-2.7	2	4,479	(3,700, 5,259)	27.8%		6,200	(5,539, 6,861)	-2.2	2
o Total meat intake, tertiles	30 IU,090	(3,321, 11,033)	1.0	0.90	+, IOO	(J,Z/U, 4,9J/)	17.12	0.50	0,442	(3,730,7,147)	τσ	0.00
	34 9,580	(8,316, 10,843)	- 14.3		4,142 3.709	(3,204, 5,079)	-10.4%		5,763 6.631	(5,000, 6,526) (6.035, 7.228)	15.1	
		(9,737, 11,981)	13.3	0.31	4,270	(3,437, 5,103)	3.1%	0.80	6,491	(5,813, 7,169)	12.6	0.35
Total vegetable and fruit intake, tertiles	34 10.358	(9.329. 11.387)			3.741	(2.995 4.487)			6.179	(5.558 6.801)		
		(9,554, 11,547)	1.9		4,373	(3,652, 5,094)	16.9%		6,328	(5,726, 6,930)	2.4	
3 Serum 25-OH-vitamin D (ng/mL)	35 10,591	(9,515, 11,666)	2.2	0.72	3,972	(3,196, 4,748)	b.2%	0.64	6,442	(5,793,7,092)	4.3	0.55
					4,004	(3,262, 4,746)			6,284	(5,659, 6,908)		
17.9 - 26.9 >26.9	35 10,323 35 10,826				4 372	(3,658, 5,086) (2,971, 4,471)	9.2%	0.62	6,254 6,450	(5,653, 6,854) (5,819, 7,080)	-0.5 2.6	, ł
ations: Cl, confidence interval; NSA	D, non-steroid	In color two clev	-1.0 3 9	061	3 721	/	-7 1%	0.01	0.100	(000) 1 1000/		0 /
Using general linear models, adjusted for staining batch.		al anti-inflammatory of	-1.0 3.9 Irug; OD, optical	0.61 density.	3,721		-7.1%					0. /
^o Measured using automated immunohistochemistry with image analysis.	, taining batch.	an	-1.0 3.9 Irug; OD, optical	0.61 density.	3,721		-7.1%					0.72
•	taining batch. hemistry with	al anti-inflammatory c image analysis.	-1.0 3.9 Irug; OD, optical	0.61 density.	3,721		-7.1%					0.72
Calculated as (comparison group mean - reference group mean) / (reference group mean) x 100%	taining batch. hemistry with ference group	al anti-inflammatory c image analysis. mean) / (reference gr	-1.0 3.9 Irug; OD, optical	· 3	3,721	- - - -	-7.1%					0.72

3,100 (2,014, 4,185) 1,963 (922, 3,004) 1,966 (906, 3,027)	- 185) - 04) -36.7 27) -36.6 0.16		2,721 (2,1	(2,360, 3,081) (2,534, 3,226)	; .	
				534, 3,226)	;	
					5.9	
		0.10		198, 2,903)		0.54
				615, 3,281)		
	922) -25.8	0.31 2		208, 2,824)	-14.7	0.06
				415, 3,056) 457 2,948)		0.88
				485, 2,952)		0.97
2,233 (1,657, 2, 3.426 (1.224, 5)			0. –	540, 2,922) 795 3.255)		0.59
		1.61		428, 3,165)	2	
	-			440, 3,122) 317, 2,934)		0.47
		N) N		170, 3,041) 427, 3,043)	5.0	
		0.11 2		434, 3,078)		0.61
				375 3 0691		
	-			201, 2,875)		
	-			559, 3,230)		0.4/
				203, 2,874)		
		0.71 2		256, 2,987)	3.3	0.58
	100			250 2 0201		
				569, 3,245)		8
				-00, -,010)		0.00
		N) N)		440, 3,172) 299, 2,986)	-5.8	
		0.41 2		343, 3,058)		0.71
		N		379. 3.095)		
				196, 2,937)		2
				400, 3,191)		0.00
	Ŭ			341, 3,116)		
	-			426, 3,157)		0.80
				344 3 3000		
		N) N		268, 2,966)	-5.1	
		0.70 2		373, 3,177)		0.87
	124) -	N		051, 2,773)		
				467, 3,154)	16.5	3
				573, 3,204)	21.4	0.07
		(1)		680, 3,362)		
	335) 2.5			>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	-14.6	
				230, 2,929)		R
		0.67		230, 2,929) 184, 2,897)	6'CT-	
		(1,048,2,052) (1,048,2,052) (1,1428,3,377) (1,534,3,052) (1,1534,3,052) (1,1534,3,052) (1,1554,3,052) (1,1557,2,809) (1,1563,3,578) (1,1756,3,578) (1,1756,3,578) (1,1756,3,568) (1,1756,3,568) (1,175,3,568) (1,175,3,568) (1,175,3,568) (1,175,3,568) (1,176,3,578) (1,127,3,3,668) (1,178,3,468) (1,178,3,468) (1,178,3,468) (1,178,3,468) (1,178,3,568) (1,1864,3,777) (1,288,2,336) (1,1864,3,778) (1,1864,3,778) (1,1864,3,778) (1,1864,3,778) (1,1864,3,778) (1,1864,3,788) (1,1864,3,788) (1,1864,3,788) (1,1864,3,788) (1,1864,3,788) (1,1864,3,788) (1,1864,3,788) (1,1864,3,788) (1,1864,3,788) (1,187,3,3,389) (1,187,3,3,368) (1,187,3,3,255) (1,187,3,3,3,356) (1,187,3,3,356) (1,187,3,3,356) (1,187,3,3,356) (1,187,3,3,356) (1,187,3,356) (1,187,3,356) (1,18	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	

^eDietary plus supplemental intake.

Characteristics n mean(OD) 95% CI difference ⁶ (%) P-value mean(OD) 95% CI difference ⁶ (%) P-value mean(OD)	n v	Whole crypt, mean (OD)	95% Cl	Proportional difference ^c (%) P-value	P-value	Upper 40% of crypts, mean (OD)	95% CI	Proportional difference ^c (%) P-value	P-value	Lower 60% of crypts, mean (OD)	95% CI	Proportional difference ^c (%)	P-value
Age (years) 47 - 54			(1,709, 2,184)			335	(-483, 1,154)			1,521	(1.340, 1,702)		
55 - 62 63 - 75	3 33		(1,574, 2,037)	-7.2 -8.4	0 35	283	(-516, 1,081)	-15.8 194 7	020	1,449	(1,273, 1,625)	-8.7	0 34
Sex	ę		(d 1	0.12	500	(110, 1,101)	1077	0.00	1,004	(1,210, 1,010)	ġ.	i i
Male Female	5 48	1,962 1.740	(1,763, 2,161) (1.556, 1.924)	-11.3	0.11	803 322	(193, 1,412) (-243, 886)	-60.0	0.25	1,562 1.359	(1,406, 1,718)	-13.0	0.06
Regular ^d use of aspirin	5	1,740	(1,000, 1,024)	CTT.	0.11	720	(-243, 000)	-00.0	0.20	1,000	(1,210, 1,007)	- ET 3-0	0.00
No	64	2,030	(1,825, 2,235)		2	422	(-310, 1, 153)	; .	, ,	1,582	(1,425, 1,739)))
Yes Regular ^d use of other NSAID	40	1,725	(1,567, 1,883)	-15.0	0.03	620	(58, 1,182)	47.0	0.69	1,3/2	(1,252, 1,493)	-13.2	0.05
Yes	35 69	1,898 1,814	(1,675, 2,120) (1,661, 1,968)	-4.4	0.56	937 344	(173, 1,700) (-183, 871)	-63.3	0.23	1,492 1,433	(1,324, 1,661) (1,316, 1,549)	-4.0	0.58
Currently smoke	{		···	:		5					Viter in the second	i	
Yes	8 96	1,850 1.753	(1,723, 1,977) (1.276, 2.230)	-5.2	0,70	-293	(177, 1,050) (-1.932, 1.346)	-147.8	0.30	1,460 1.363	(1,364, 1,557) (1.001, 1,724)	-6.7	0.61
Physical activity			1				(1	
Low	88	1,782	(1,533, 2,031)			180	(-334, 1,380)	-65.7		1,403	(1,215, 1,592)	7 r	
High	27	1,845	(1,636, 2,054)	3 is i	0.77	867	(147, 1,586)	65.5	0.48	1,456	(1,298, 1,614)	3.7	0.74
Body mass index (kg/m ²)	3												
<25.0 25.0 - 29.9	43 22	1,767	(1,479, 2,055) (1,682, 2,086)	6,6		1,441 405	(471, 2,412) (-276, 1,087)	-71.9		1,422 1,482	(1,203, 1,640) (1,328, 1,635)	4.2	
≥30	39	1,839	(1,624, 2,054)	4.1	0.77	190	(-536, 915)	-86.8	0.06	1,439	(1,275, 1,602)	1.2	0.97
Total energy, tertiles	2	4	11 F77 4 0071			060	1470 4 7601			1 320	11 104 1 6441		
2	35 1	1,732 1,820	(1,591, 2,049)	3.9		104	(-686, 893)	-89.3		1,448	(1,275, 1,622)	5.8	
3 Saturated fat, tertiles	35	1,950	(1,726,2,174)	11.3	0.22	06G	(-1/6, 1,367)	-38.5	0.52	1,537	(1,367,1,706)	12.2	0.18
<u>ч</u> ,	; <u>4</u>	1,886	(1,654, 2,119)	، د د		350	(452, 1, 152)			1,492	(1,315, 1,668)	, , 1	
ωı	33	1,819	(1,575, 2,062)	-3.6	0.69	550	(-292, 1,392)	57.1	0.71	1,416	(1,231, 1,601)	-5.1	0.57
1	34	1,839	(1,607, 2,071)			322	(-462, 1, 107)			1,460	(1,284, 1,636)		
2 2	ж Ж	1,812 1 878	(1,584, 2,040)	-1.5	0.80	1,149 124	(376, 1,921)	-61 4	0.42	1,430	(1,256, 1,636)	-2.1	0 94
Total [®] vitamin E, tertiles	1	0.000	farmer (, , afait	1	-	į	1				(to)		
1 2	35 34	1,908 1,730	(1,665, 2,152) (1,502, 1,957)	-9.3		300 513	(-547, 1,146) (-277, 1,304)	- 71.4		1,511 1,377	(1,325, 1,696) (1,204, 1,550)	-8 - 8	
3 Total ^e calcium tertiles	8	1,891	(1,651, 2,131)	-0.9	0.93	811	(-24, 1,045)	1/0./	0.43	1,473	(1,290, 1,000)	-2.5	0.79
1 1	34	2,085	(1,853, 2,317)	,		376	(-455, 1,207)			1,607	(1,429, 1,785)		
3 2	3 33	1,660 1.776	(1,414, 1,906) (1,548, 2,007)	-20.4	0.08	501	(-121, 1,642) (-321 1,323)	102.3 33.4	0.84	1,330 1 418	(1,141, 1,518) (1 242 1 594)	-17.3	0.16
Dietary fiber, tertiles	1												
1	35 34	1,972 1,717	(1,716, 2,228) (1,487, 1,947)	- 12.9		365 1,139	(-513, 1,244) (351, 1,927)	- 211.7		1,539 1,371	(1,344, 1,/34) (1,196, 1,546)	-10.9	
3 Total meat intake, tertiles	35	1,842	(1,597, 2,086)	-6.6	0.56	122	(-716, 959)	-66.7	0.65	1,452	(1,266, 1,638)	-5.7	0.60
ч , ,	4 24	1,963	(1,668, 2,258)	, , ,		1,312	(310, 2,314)	-		1,536	(1,313, 1,759)	. '	
ωĸ	33 23	1,514 1,669	(1,405, 1,933)	-15.0	0.20	459	(-010, 700) (-439, 1,357)	-65.0	0.41	1,310	(1,120, 1,520)	-14.1	0.21
Total vegetable and fruit intake, tertiles	iles 34	1 8 7 8	(1584 2 072)			237	(-5RG 1 063)			1 444	(1 258 1 629)		
2	33	1,955	(1,726, 2,184)	7.0		1,237	(463, 2,012)	422.4		1,526	(1,353, 1,700)	5.7	
3	35	1,733	(1,494, 1,971)	-5.2	0.57	155	(-653, 962)	-34.7	0.83	1,380	(1,198, 1,561)	-4.4	0.61
<pre>serum zs-OH-vitamin D (ng/mL) <17.9</pre>	34	1,863	(1,629, 2,097)			103	(-691, 897)			1,464	(1,286, 1,641)		
17.9 - 26.9	35	1,741	(1,501, 1,982)	-6.5		1,220	(403, 2,037)	108.6		1,380	(1,198, 1,563)	-5.7	
>26.9	35	1,925	(1,984, 2,166)	3.3	0.75	301	(-518, 1,121)	192.8	0.70	1,516	(1,333, 1,699)	3.6	0.72
Abbreviations: c., contidence interval; NSAID, non-steroidal ant-intrammatory drug; OD, optical density. "Using general linear models, adjusted for staining batch.	l; NSAID, non- d for staining	-steroidal ant batch.	Hinflammatory d	rug; UD, optical o	density.								
^b Measured using automated immunohistochemistry with image analysis.	histochemist	ry with image	analysis.										
^c Calculated as (comparison group mean - reference group mean) / (reference group mean) x 100% ^c Take at least once a week.	an - reference	group mean	i) / (reference gro	oup mean) x 100									

^oTake at least once a week. [°]Dietary plus supplemental intake.

Whole crypt, mean (OD)	95% CI	Proportional difference [®] (%)		pper 40% of crypts, mean (OD)	95% CI	Proportional difference [®] (%) F	1	.ower 60% of crypts, mean (OD)	95% CI	Proportional difference [®] (%)	P-value	Whole crypt, mean (OD)	95% CI	Proportional difference [®] (%)	P-va
0.25				0.22	(0.18, 0.26)			0.28	(0.22, 0.34)						
0.26	(0.22, 0.30)	-8.0	0.56	0.23	(0.19, 0.27)	6.8 -8.7	0.56	0.30	(0.24, 0.36)	-9.0	0.57	54 54	(1.31, 1.75)	89. 1933	0.39
20	1000 0001			2	100 000			222	22 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			0	1 10 1 00		
0.26 0.23	(0.22, 0.30) (0.20, 0.27)	-10.0	0.35	0.23 0.20	(0.19, 0.27) (0.17, 0.24)	-11.1	0.33	0.30 0.27	(0.24, 0.35) (0.22, 0.32)	- 10.0	0.43		(1.52, 1.85) (1.34, 1,64)	-11.5	0.09
c c n	1000			2	10 17 0 DE			2020	10 01 10 01						
0.24	(0.21, 0.29) (0.21, 0.27)	- 3.0	0.77	0.21	(0.17, 0.25) (0.19, 0.25)	5.4	0.66	0.30 0.27	(0.25, 0.35) (0.23, 0.31)	- -11.9	0.30		(1.35, 1.93) (1.32, 1.62)	- -16.2	0.03
0.24	(0.20, 0.28)			0.23	(0.19, 0.26)			0.26	(0.21, 0.31)				(1.38, 1.81)		
0.25	(0.22, 0.27)	1.5	0.89	0.21	(0.18, 0.24)	-6.6	0.56	0.29	(0.25, 0.33)	11.2	0.40		(1.43, 1.72)	-1.3	0.88
0.25	(0.23, 0.27)	i •		0.22	(0.20, 0.24)			0.28	(0.25, 0.31)				(1.48, 1.72)		,
0.20	(0.12, 0.29)	-17.b	0.34	0.19	(0.10, 0.27)		0.51	0.23	(0.11, 0.34)	-20.3	0.36		(0.85, 1./5)	-18.8	0.21
0.23	(0.18, 0.27)	10.0		0.20	(0.15, 0.24)	11 0		0.26	(0.20, 0.32)	ю, ч			(1.43, 1.90)	-10 7	
0.25	(0.21, 0.28)	9.3	0.52	0.22	(0.18, 0.26)		0.44	0.28	(0.23, 0.34)	0.5 7.4	0.66		(1.40, 1.80)	-3.9	0.77
5	0 20 0 241			0	0 10 0 00			0.00	10 01 0 021				14 06 4 701		
0.24	(0.20, 0.28)	-5.5	0 76	0.21	(0.18, 0.25)		5	0.28	(0.23, 0.33)	-3.0	2		(1.41, 1.79)		5
0.24	(0.20, 0.28)	-4./	U./b	U.21	(0.17, 0.20)		0.62	0.28	(0.23, 0.33)	-2.2	0.91		(1.38, 1.79)	2.5	0.86
0.28	(0.24, 0.32) (0.17, 0.25)	-25.8		0.25	(0.21, 0.29) (0.15, 0.23)	-24.1		0.32	(0.27, 0.38) (0.17, 0.28)	-29.3			(1.43, 1.87) (1.18, 1.61)	-15.7	
0.25	(0.21, 0.29)	-12.3	0.24	0.21	(0.17, 0.25)		0.14	0.29	(0.24, 0.35)	-8.9	0.47		(1.50, 1.92)	33	0.68
0.23	(0.23, 0.31) (0.19, 0.27)	-13.3	5	0.22	(0.18, 0.28) (0.15, 0.26)			0.25	(0.26, 0.37) (0.19, 0.30)	-21.5	2		(1.45, 1.87)	- 15.7	>
	(0.10, 0.10)		0.40		(0.10,0.20)				(0.04,0.00)		0.00		(107 4 70)		0.20
0.26	(0.22, 0.30) (0.19, 0.27)	7.7	0.64	0.24	(0.20, 0.28) (0.15, 0.23)		0.29	0.29	(0.24, 0.35) (0.22, 0.34)	10.5 5.0	0.73		(1.38, 1.82) (1.44, 1.88)	7.4 11.7	0.28
0	10 10 0 27			0 20	10 10 0 001			90.0	0 20 0 21				(1 30 1 OE)		
0.25	(0.16, 0.27) (0.21, 0.29) (0.21, 0.30)	- 12.0	0.38	0.22	(0.18, 0.24) (0.18, 0.26) (0.19, 0.27)		0.34	0.20	(0.24, 0.31) (0.23, 0.34)	- 15.2 11.5	0.51		(1.28, 1.71) (1.40, 1.86)	-7.9 0.7	0.95
2	000			2				2							
0.25 0.25	(0.21, 0.29) (0.19, 0.28) (0.20, 0.29)	-4.8 -1.9	0.90	0.22 0.21 0.22	(0.18, 0.27) (0.16, 0.25) (0.17, 0.26)		0.81	0.28 0.28 0.28	(0.22, 0.34) (0.22, 0.34) (0.22, 0.34)	- 1.3 0.7	0.96		(1.45, 1.91) (1.24, 1.73) (1.35, 1.79)	- -11.5 -6.4	0.53
0.21	(0.17.0.26)			0.17	(0.13, 0.22)			0.25	(0.19.0.35)				(1.50, 1.98)		
0.25	(0.21, 0.29) (0.23, 0.32)	17.3 29.7	0.08	0.21	(0.17, 0.25) (0.22, 0.30)	22.3 48.0	0.01	0.29	(0.24, 0.35) (0.23, 0.35)	16.7 15.4	0.43		(1.41, 1.85) (1.15, 1.61)	-6.1 -20.8	0.05
0.30	(0.25, 0.36)	- 23.2		0.28	(0.23, 0.32)	- 27.5		0.34	(0.27, 0.41) (0.22, 0.33)	-20.2			(1.23, 1.79)	-	
0.21	(0.16, 0.25)	-32.0	0.03	0.18	(0.14, 0.23)		0.04	0.24	(0.18, 0.30)	-31.2	0.09		(1.31, 1.81)	3.1	0.73
0.25	(0.20, 0.29)	μ, υ		0.22	11	-2.1		0.28	NN	-2.6				2 '	
0.25	(0.21, 0.30)	3.0	0.77	0.22	18	2.0	0.85	0.29	22	4.7	0.71			-14.4	0.16
0.25	(0.21, 0.29)			0.21	(0.18, 0.25)			0.29	N			1.46	(1.23, 1.68)		
0.21	(0.16, 0.25)	-16.0	55.0	0.18	(0.14, 0.22)	-17.0	96.0	0.24	(0.18, 0.30)	-17.0	0 63	1.62	(1.39, 1.85)	11.4	0 19
	(011, 0.01)	10.0													
	$\frac{\text{APC/}p-\text{createmin}}{\text{memory}} \frac{\text{APC}}{\text{memory}} = \frac{1}{2}$	APC/J:-streamin' method corput. Method corput. (D010) 95% CI 0.26 (0.20, 0.20) 0.26 (0.22, 0.30) 0.26 (0.22, 0.30) 0.26 (0.22, 0.30) 0.26 (0.21, 0.22) 0.26 (0.22, 0.27) 0.25 (0.21, 0.22) 0.26 (0.21, 0.22) 0.26 (0.21, 0.22) 0.26 (0.21, 0.22) 0.25 (0.21, 0.22) 0.26 (0.21, 0.22) 0.26 (0.21, 0.22) 0.26 (0.21, 0.22) 0.27 (0.22, 0.23) 0.26 (0.21, 0.20) 0.26 (0.21, 0.20) 0.27 (0.23, 0.31) 0.23 (0.23, 0.31) 0.27 (0.23, 0.31) 0.26 (0.21, 0.20) 0.27 (0.23, 0.31) 0.25 (0.21, 0.20) 0.27 (0.21, 0.20) 0.26 (0.21, 0.20) 0.27 (0.21, 0.20) 0.27 (0.21, 0.20) 0.26 (0.21, 0.20) 0.26 (0.21, 0.20) 0.27 (0.21, 0.20) 0.27 (0.22, 0.22) 0.26	Jack/De.tetemin' Winde cryk 1 Proportional difference" (%) Variate rollow Jack/De.tetemint" 0.26 (0.20, 0.28) (0.22, 0.02) - 0.26 (0.22, 0.30) (0.23, 0.21, 0.28) - 0.24 (0.21, 0.29) - 0.25 (0.21, 0.27) - 0.24 (0.21, 0.27) - 0.25 (0.21, 0.28) - 0.26 (0.21, 0.27) - 0.26 (0.21, 0.28) - 0.26 (0.21, 0.28) - 0.26 (0.21, 0.28) - 0.26 (0.21, 0.28) - 0.26 (0.21, 0.28) - 0.26 (0.21, 0.28) - 0.27 (0.20, 0.28) - 0.28 (0.21, 0.28) - 0.27 (0.21, 0.28) - 0.27 (0.21, 0.28) - 0.27 (0.21, 0.28) - 0.27 (0.21, 0.28) - 0.25 (0.21, 0.28) -	Nat/Bez Frequence (%) Frequence (%)	Number (Nor) Paylor Interactive (Nor Paylor Paylor	Marked construction Parked construction Parked construction	Natholise Paylor Pay	Number Control Propriori Propriori	Number Carrier Properiori Pr	SSC Fromotional under (b) state frame (b) state state	Important <		Image: Properiori Image: Properiori	Image: Protect state Image: P	

Table S7. Comparisons ^a of mean APC φ _h (distribution index ^b) in the normal-appearing colorectal mucosa of sporadic colorectal adenoma patients (n = 104), by selecte	ed .
participant characteristics	

		Minimally-		Proportional				Proportional	
Characteristics	n	adjusted ϕh (OD)	95% CI	difference ^c (%)	P-value	Adjusted ϕh (OD)	95% CI	difference ^c (%)	P-valu
Age (years)									
47 - 54	34	0.38	(0.34, 0.41)	-		0.37	(0.32, 0.43)	-	
55 - 62	35	0.39	(0.35, 0.43)	4.5		0.39	(0.33, 0.45)	4.5	
63 - 75	35	0.41	(0.37, 0.45)	8.5	0.26	0.40	(0.35, 0.45)	7.1	0.26
Sex									
Male	48	0.38	(0.35, 0.42)	-		0.38	(0.35, 0.41)	-	
Female	56	0.40	(0.37, 0.43)	3.9	0.49	0.40	(0.37, 0.43)	5.5	0.38
Regular ^d use of aspirin			,						
No	64	0.40	(0.37, 0.44)			0.40	(0.34, 0.45)	-	
Yes	40	0.39	(0.36, 0.41)	3.5	0.54	0.38	(0.34, 0.43)	-3.0	0.65
	40	0.00	(0.00, 0.41)	5.5	0.54	0.00	(0.04, 0.40)	5.0	0.05
Regular ^d use of other NSAID		0.07	(0.00.0.40)			0.00	(0.0.4.0.40)		
No	69	0.37	(0.33, 0.40)	-		0.38	(0.34, 0.42)	-	
Yes	35	0.41	(0.38, 0.43)	10.2	0.11	0.40	(0.38, 0.43)	6.3	0.20
Currently smoke									
No	96	0.39	(0.37, 0.41)	-		0.40	(0.38, 0.42)	-	
Yes	8	0.38	(0.30, 0.46)	-3.3	0.76	0.39	(0.30, 0.48)	-2.3	0.83
Physical activity									
Low	30	0.40	(0.36, 0.44)	-		0.41	(0.37, 0.45)	-	
Moderate	38	0.40	(0.36, 0.44)	0.0		0.41	(0.37, 0.44)	-0.9	
High	27	0.38	(0.35, 0.41)	-5.1	0.42	0.37	(0.34, 0.41)	-9.0	0.44
Body mass index (kg/m ²)			(,,				(,,		
<25.0	22	0.39	(0.34, 0.43)			0.40	(0.35, 0.45)	-	
25.0 - 29.9	43	0.39		-0.3		0.39		-2.9	
			(0.35, 0.42)		0.61		(0.35, 0.42)		0.05
≥30	39	0.40	(0.37, 0.44)	3.4	0.61	0.40	(0.36, 0.43)	-0.1	0.95
Total energy, tertiles									
1	34	0.38	(0.34, 0.42)	-		0.39	(0.35, 0.43)	-	
2	35	0.38	(0.34, 0.42)	-0.2		0.38	(0.34, 0.42)	-1.6	
3	35	0.42	(0.38, 0.45)	9.1	0.19	0.41	(0.37, 0.45)	5.0	0.39
Saturated fat, tertiles									
1	34	0.39	(0.35, 0.43)	-		0.39	(0.36, 0.43)	-	
2	35	0.36	(0.33, 0.40)	-7.3		0.37	(0.33, 0.43)	-6.8	
3	35	0.43	(0.39, 0.46)	9.1	0.31	0.42	(0.38, 0.46)	6.6	0.57
Total fat, tertiles									
1	34	0.39	(0.36, 0.43)	-		0.39	(0.35, 0.43)	-	
2	35	0.36	(0.33, 0.40)	-7.7		0.37	(0.33, 0.41)	-6.5	
3	35	0.42	(0.39, 0.46)	7.8	0.28	0.42	(0.38, 0.47)	7.1	0.39
	55	0.42	(0.00, 0.40)	7.0	0.20	0.42	(0.00, 0.47)	7.1	0.00
Total ^e vitamin E, tertiles	24	0.40	(0.26, 0.44)	-		0.20	(0.22, 0.45)	-	
1	34	0.40	(0.36, 0.44)			0.39	(0.33, 0.45)		
2	35	0.39	(0.35, 0.43)	-2.3		0.39	(0.33, 0.45)	0.4	
3	35	0.39	(0.35, 0.43)	-1.6	0.83	0.38	(0.32, 0.44)	-2.6	0.70
Total ^e calcium, tertiles									
1	34	0.40	(0.36, 0.44)	-		0.39	(0.35, 0.44)	-	
2	35	0.38	(0.34, 0.42)	-5.6		0.38	(0.34, 0.42)	-3.7	
3	35	0.39	(0.36, 0.43)	-1.9	0.81	0.40	(0.36, 0.45)	2.1	0.84
Dietary fiber, tertiles			,						
1	34	0.42	(0.37, 0.46)	-		0.40	(0.35, 0.45)	-	
2	35	0.39	(0.35, 0.43)	-6.5		0.38	(0.35, 0.42)	-3.5	
3	35	0.37	(0.33, 0.43)	-9.8	0.21	0.40	(0.35, 0.42) (0.35, 0.44)	-0.8	0.51
	55	0.07	(0.00, 0.41)	-5.0	0.21	0.40	(0.00, 0.44)	-0.8	0.51
Total meat intake, tertiles		0.00	(0.00.0.40)			0.00	(0.0.4.0.40)		
1	34	0.38	(0.33, 0.43)	-		0.38	(0.34, 0.43)	-	
2	35	0.41	(0.34, 0.45)	7.2		0.41	(0.37, 0.44)	5.3	
3	35	0.39	(0.34, 0.43)	1.3	0.91	0.39	(0.35, 0.43)	0.9	0.97
Total vegetable and fruit intake, tert									
1	34	0.39	(0.35, 0.43)	-		0.38	(0.33, 0.43)	-	
2	35	0.39	(0.36, 0.43)	0.4		0.39	(0.36, 0.43)	3.9	
3	35	0.39	(0.35, 0.43)	0.5	0.93	0.41	(0.36, 0.45)	7.4	0.55
Serum 25-OH-Vitamin D (ng/m))									
Serum 25-OH-vitamin D (ng/mL) <17.9	34	0.39	(0.35 0.43)	-		0.39	(0.34 0.43)	-	
<pre>serum 25-0H-vitamin D (ng/mL) <17.9 17.9 - 26.9</pre>	34 35	0.39 0.40	(0.35, 0.43) (0.37, 0.44)	- 3.2		0.39 0.40	(0.34, 0.43) (0.36, 0.44)	- 3.4	

Abbreviations: CI, confidence interval; NSAID, non-steroidal anti-inflammatory drug; OD, optical density.

^aUsing general linear models: adjusted for staining batch for minimally-adjusted ϕ h, adjusted for staining batch and measured confounding variables (listed in Supplementary Table S1) for adjusted ϕ h.

^bAPC expression in the upper 40% of the crypt divided by expression in the whole crypt, measured using automated immunohistochemistry with image analysis. ^cCalculated as (comparison group mean - reference group mean) / (reference group mean) x 100%.

^dTake at least once a week.

^eDietary plus supplemental intake.