What is the firelighter of colorectal carcinoma's (CRC's) firecracker/fishbone: U-238. Are we missing this point?

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Abstract

Colorectal cancer (CRC) is the third most common cancers in the world with a very high mortality rate. In many countries like Canada and Japan it is the 2nd after lung cancer. Most CRC are sporadic, and others are familial or genetic. Sequence-time Fishbone of multistage colorectal cancer is associated between macroscopic developing [from adenomatous polyp, severe dysplasia, carcinoma, to metastasis] and up-regulated follow by mutation of several gene expression [APC, K-ras, p53, DCC] has been figured. The dancing of CD4-CD8 occur during the evolution of adenomatous polyp, severe dysplasia to carcinoma. Sequence APC, K-ras, p53, DCC gene mutation in the Fishbone has been transformed to a Firecrackers (up-regulated then down-regulated APC gene will up-regulated the next gene K-ras, and p53. When K-ras and 53 is down-regulated DCC gene is up-regulated, when DCC gene is mutated metastasis happens). Non genetic, non gender, familial, geographical dependency (sporadic), also in young people, increase 2 to about 200 times in last decade ask many scientist who is the firelighter of the firecrackers gene mutation? The aim of this study was to identify the firelighter of the colorectal cancer development and progression and find that U-238 which emits alpha and beta ray during their decay is the agent.

Key words: Colorectal cancer (CRC), adenoma-dysplasia-carcinoma-metastasis sequence, APC, K-ras, p53, DCC gene mutation, firecrackers, U-238, alpha and beta ray.

1. Introduction

CRC frequently follows and develops from adenomatous polyps, severe dysplasia, carcinoma and then metastasis. A variety of genetic and epigenetic alterations, which commonly occur during development from normal colon mucosa to adenoma and carcinoma and metastasis, such as APC, K-ras, p53 gene, DCC mutation, microsatellite instability or epigenetic events, have been revealed. The harmony of CD4-CD8 has associated with the gene mutation sequence and the stage of colorectal carcino-
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CRC is an aggressive type of cancer, geographically dependent (sporadic), increase minimal 2 times in this last decade, no gender, familial, non genetic, attack also children (tend to be younger), bring us to what biologic or chemist or physics or metabolic or toxin in the environment is the firelighter of this problem. The aim of this study was to discuss the possible firelighter colorectal cancer development and progression with the immunology endurance. Metaanalysis of all causes of CRC was done and have been made a fishbone. The result change the fishbone to a firecracker because down-regulated gene by the mutation of a gene (APC), expresses another gene (K-ras) and if this gene at last become mutated, another gene (p53) got expresses, furthermore DCC gene

2. Discussion
Consistent with the observation that APC mutation is an early event in colorectal carcinoma, K-ras mutation is found elevated in adenomatous samples compared to normal tissue. In severe dysplasia, p53 mutation is found and than DCC (Deleted in Colon Cancer) is elevated in Carcinoma for a period and when it is down-regulated (mutated): metastasis occur. Fifteen sequentially up-regulated and 2 downregulated genes are found in villous adenoma patients. Many target genes and pathways has reveal influence conditions for CRC therapies. Many invasive & expensive tools for CRC screening program has been debated, but not to the firelighter of this firecracker.

3. Fibre nutrition-U238
The incidence increased about 200 times in a centrum: in 1985 every 3 month 1 new cases and in 1996 every day 2 new cases and most are geographical dependent bring that environment are the blamed of this CRC. Fibre nutrition habit decreased the incidence means that it clean up the agent which is stick on the gastrointestinal mucosa. Non genetic, familial, sporadic, increase minimal 2 times in this last decade, no gender, attack also children (tend

![Figure 1](image)

**Figure 1** Above the horizontal line are the macroscopic aspect (Adenoma-Severe dysplasia-Carcinoma-Metastasis) sequence and below the line is the up-regulated and down-regulated gene (APC, K-ras, P53, DCC) sequence, incl. CEA. These Gene mutation sequence figured as a firecrackers. U-238 is the firelighter of the CRC’s firecrackers. APC (adenomatous polyposis coli) gene, DCC (Deleted in Colon Cancer) gene. P53 gene make a protein with 53 kDa weight function as cytokine pro-apoptosis. K-ras (Kirsten-ras) gene.
to be younger), support that an agent from the environment is slick and go into the gastrointestinal tract (food or drinking water that change the DNA is could be done by alpha and beta ray exposure this last decade by uranium. In Nuclear Electricity power, U-235 were used and emit gamma ray, it is not in the food or drinking water, although it is 'fissile' / 'nuclear fission'. U-235 is only about 0.7% in nature and 99.3% nature uranium are U238. U238 emits alpha ray and than also beta ray to ends in stable lead-206, that of U-238 is said to be 'fertile' or depleted uranium. During the decay of U-238 -> alfa ray + thorium 234 but continued the decay emit alfa/ beta ray up to stable lead-206 (not radioactive). U-238 in rocks and sand, when ore, extracted from the earth, most is removed from the crushed rock during the milling process, but the radioactive decay products are left in the tailings. Thus 85 percent of the radioactivity of the original ore is discarded in the mill tailings. Half life billions of years, it will continue to produce alpha and beta rays. Alpha ray were defined by their lowest penetration of ordinary objects, but not able to penetrate human skin, so uranium that is outside the body is less harmful than that which is inhaled or swallowed. About 99 % of uranium ingested in food or water will leave a person’s body in the feces\textsuperscript{11}. Alpha rays penetrate in micrometer unit, and beta rays in centimeter order. U-238 can be removed from drinking water by several treatment methods. The U.S. Environmental Protection Agency (EPA) give a guidelines that First, contact your state or local health department to determine if you are in a high-risk area of uranium. The EPA’s maximum contaminant level for uranium in public water systems is 30 parts per billion (ppb). Canada and some states, such as Vermont, have gone further and set a maximum contaminant level of 20 ppb [12]. Korea still want to monitored periodically to act while 170 ppb has found in the groundwater\textsuperscript{13}.

Strategic Study to stop the increasing prevalence with lower risk factors, Knowing pathogenesis, Early detection. Screening in the community annual (FOBT or FIT), Sigmoidoscopy every 5 years, Double contrast barium enema (DCBE) every 5years, Colonoscopy every 10 years inaccessible group, Markers, Vaccines, polyp surgery. But it is still not yet enough to decrease the prevalence, it is have to go to the ground water security without U-238. In conclusion, firecrackers become a model how to figured gene mutation or down-regulated a defence gene induce an up-regulated the following defence gene. The agent act as firelighter of the firecrackers is U238 in ground water.

***Foot note: Fecal occult blood test (FOBT) or Fecal immunochemical test (FIT).

References


