

Dear Dieter,

We have identified varying concentrations of glyphosate in the urine of cows, pigs, dogs, rabbits, and humans with an ELISA test that is very specific for glyphosate. We also verified our data from the urine of cows by gas chromatography and atomic absorption spectroscopy. The correlation coefficient was a very close 0.96. We have shared our results with the Federal Institute for Risk Evaluation (Bundesinstitut für Riskobewertung, BfR). They acknowledged that this is to be expected because the cows are eating glyphosate in imported soybean products from the U.S., Brazil, Argentina, and Canada. Another source of glyphosate is from pre-harvest desiccation of grain crops (in Europe).

Our results show that there is a large difference in the concentration of glyphosate between cattle herds. We also find that trace minerals in animal blood are significantly reduced by glyphosate. We also find high GLDH and GOT values that indicate liver damage.

My primary focus has been to identify effects of glyphosate on microorganisms in the stomach and gastro-intestinal tract (MDT) of animals. Many beneficial organisms die and permit pathogens to grow. Pathogens especially favored are species of Clostridium and Salmonella which have a very high tolerance for glyphosate. Other bacteria such as Lactococcus, Lactobacillus, Bifidobacteria, etc., are much more sensitive than the pathogens and killed by glyphosate.

My laboratory has concentrated on solving cattle diseases since the early 1990's and does not receive government support. We have found that chronic botulism is caused by the toxicity of glyphosate to beneficial intestinal microorganisms and have shared our data widely. I am currently working with Danish colleagues who find very high concentrations of glyphosate in urine of herds having very serious health problems. [I have SEEN THIS PROBLEM BECOMING MUCH MORE SERIOUS IN RECENT YEARS. I HAVE ALWAYS SHARED MY RESULTS AND AM AMAZED THAT American colleagues do not recognize this problem. Do they just ignore it? Don't they ask why the animals die? Who is asking the important questions? Who is recording the damage to farmers and their families? Who protects people and the environment from profit seekers?

I see two serious diseases connected with glyphosate. The first is HBS that we can prove is generally caused by Clostridium perfringens, and the second is chronic botulism caused by Clostridium botulinum. Glyphosate is a strong chelator for cations in soil as well as in animals and humans. Liver and kidneys are attacked, the aromatases and receptors for sex hormones are inhibited, and the intestinal tract is damaged (MDT) and not functional. There are many papers of Huber, Seralini and other scientists that document these damaging effects. One of our papers is currently with referees for peer review and two more manuscripts are being submitted.

I send my greetings.

M. Krueger

9/6-12