

## EN NYRE

A BRIEF HISTORY OF ONE KIDNEY/ONE UTERINE HORN CASES IN VONIMP Cattery. This beautiful boy, Busi-bu Diorissimo, was my biggest heartbreak in my Ragdoll breeding. I got five cases of one kidney/one uterine horn case from him (Uterine Horn Segmental Aplasia & Ipsilateral Renal Agenesis in Ragdolls). While Dio is not a so called 'traditional', he has 'traditional' lines close in his pedigree. I strongly believe that renal agenesis in Ragdolls originated in the 'traditional' Ragdolls and was later carried into 'non-traditional' Ragdolls. Two well-known breeders who worked with the 'traditional' lines admitted that they had many cases and were not able to breed the renal agenesis out. Those lines are still very popular today and we see cases popping up with their cats in the pedigree. For those who are not familiar with the term 'traditional Ragdolls', it is lines of Ragdolls that have very few foundation cats, some as few as the three original cats. The level of inbreeding in those cats is scary and I cannot understand why these lines are so popular when we know that low genetic diversity is not good for the genetic health of the breed. Please study Dio's pedigree and if you have had cases compare them to him as there are many cases worldwide related to him: <https://pawpeds.com/db/?a=p&id=1295496&g=4&p=rag&o=elastic> I have been breeding Ragdolls for nearly 10 years before I got my first renal agenesis/uterine horn aplasia case. I focused on the chocolate carriers and those cats had outcrosses not too far in the pedigree. My type was not great, but my cats and kittens were healthy. As I strived to improve the type in my chocolate carriers, I started getting the cases. My breeding program plan was to keep selecting the chocolate carriers from my own breeding but keep importing the cats who are not chocolate carriers but have a strong type, so that eventually my chocolate carriers would improve the type. Some of those imports were from well-known and popular show winning lines. My first case was born back in 2015. Dam was a cat I bred, a chocolate carrier from my previously imported lines, and dad was a new import. This was a repeat mating – the first mating was a successful litter and all

healthy kittens. This is my first affected kitten:

<https://pawpeds.com/db/?a=p&id=1290286&g=4&p=rag&o=elastic>

I want to make something absolutely clear. The gene responsible for the missing kidneys and uterine horn in Ragdolls has not yet been discovered and we do not know how the issue is inherited. The only thing we know is that we see certain cats repeated over and over in one kidney cases. I cannot say for sure that one cat is a carrier – I can suspect it could be a carrier because I have seen this cat in many cases. When I look at my own cases, I see possible ‘suspects’ on both sides. Maybe it is that I was just very unlucky, and I imported several carriers. I already mentioned beautiful Dio. I mated Dio to Mimosa and their first mating was heartbreaking – three kittens with severe cleft and none of them made it. On my vet’s advice, Mimosa was treated for an infection and the mating was repeated. There was another severe cleft palate and baby had to be PTS. One female kitten was affected, and male kitten was healthy. This is the affected kitten:

<https://pawpeds.com/db/?a=p&id=1347224&g=4&p=rag&o=elastic>

Prior to her matings with Dio, Mimosa had three healthy kittens with Willowtreerags Eisenhans. One of the female kittens was sold for breeding. After her second litter with Dio, Mimosa was spayed, and we realized she was a one uterine horn/one kidney case herself. I felt terrible – if I knew it, I would have never used her for breeding. I would also not sell a kitten from her for breeding. Unfortunately, kitten that was sold for breeding did end up producing a kitten with one kidney/one uterine horn, but she also had a healthy litter and the line was continued to date with two generations of kittens with no issue. I am working with this line currently, still hopeful to breed the issue out. The following litter from Dio was an absolute disaster. Three affected kittens out of seven:

<https://pawpeds.com/db/?a=p&id=1347230&g=4&p=rag&o=elastic>

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If you look at the mum’s side – she is a full sister to my first

case. So obviously mum is from a line with the issue. She was spayed after this litter.

<https://pawpeds.com/db/?a=p&id=1320841&g=4&p=rag&o=elastic>