Letter to the editor

Damaged Elastic Fibres after Corona Vaccination

Arne Burkhardt†, Norbert Georg Schwarz and Walter Lang

Pathologielabor Prof. Burkhardt, Obere Wässere 3-7, 72764 Reutlingen, Germany

†Deceased

Abstract

Two senior pathologists with more than 40 years of pathological experience found destruction of elastic fibres in an extent not previously known to them before. while investigating biopsies and autopsy material after corona vaccination.

Introduction

In spring 2021 two retired pathologists- were addressed by next of kin of loved ones who had unexpectedly died after corona-vaccination(s). Since summer-2021 we are offering second-pathological opinions on deaths after Corona-vaccination(s) based on pathohistological samples. Furthermore, we were more and more asked to also investigate biopsy-material such as skin biopsies from individuals who suffered severe side effects of corona-vaccinations.

As of May 2023, we have investigated more than 90 deaths and more than 60 biopsy samples. With this letter we want to draw the attention of pathologists and the medical community on the condition of the elastic fibres after corona-vaccinations.

Methods

Our investigation material consists of tissue samples from autopsies of individuals, who died after corona-vaccinations and for whom the next of kins initiated an autopsy either in a pathological institute on their own expenses or through a coroner after claiming suspicion of an unnatural death to a prosecutor. From each tissue sample available HE-stains (Haematoxylin Eosin) were prepared. Microscopic examinations were done by the two experienced pathologists Arne Burkhardt and Walter Lang (each is looking back on more than 40 years of professional experience) with a doctor and scientist writing the protocol. Additional stains and immunohistochemical stains were prepared based on the microscopic examination of the HE-stain. For staining elastic fibres, Elastica van Gieson stains were done.

(Conventional HE stains can only adumbrate elastic fibres. For making elastic fibres clearly visible specific stains such as the Elastica van Gieson are required).

Findings

One of the main, if not the main objective of pathological investigations of recently deceased is the quest for the cause of death. The microscopical investigations of histopathological tissue samples is indispensable when wanting to establish evidence for potential causes of death, such as toxic damages that are usually not visible in the macroscopic autopsy.

In individuals who died of a ruptured aortic aneurysm, a special focus falls on the microscopic investigation of the vessel walls of the aorta. The pathologists Burkhardt and Lang therefore first recognized irregularities in the texture of elastic fibres in histopathological samples from the aorta of corona-vaccinated individuals who died from an aneurysm of the aorta. Large arteries have a high proportion of elastic fibres, as they are not rigid pipes, but rather elastic tubes enabling them to transmit the waves of blood coming with every beat from the heart.

In the aortic wall, pathologists can therefore also adumbrate disruptions of elastic fibres in conventional HE stains that do not specifically stain them. Using special stains such as the Elastica van Gieson stain, elastic fibres can be highlighted. Disrupted and frayed elastic fibres in slides from the aorta **(Figure 1)** had raised the attention of the pathologists Burkhardt and Lang and made them ask more frequently for the Elastica van Gieson stains. This revealed damaged elastic fibres in other middle-sized arteries such as the vital coronary arteries **(Figure 2)**, but also in smaller peripheral vessels.

Destruction of elastic fibres could also be detected in capillaries of skin-biopsy-samples, of individuals, who survived, but suffered severe disease manifestations after corona vaccinations **(Figure 3).**

Discussion

Elastic fibres are antifragile structures with a lifespan of years, decades, even lifetimes. This, however, also means that destroyed elastic fibres cannot be easily replaced or repaired and damages of elastic fibres persist for a long time (Schmelzer and Duca 2022).

Human Elastin has a half- life of around 70 years. (Powell, Vine, and Crossman 1992; Shapiro et al. 1991). Damages and accretion of damaging materials accumulate over the years. In vessel walls of large vessels and in lung tissue, elastic fibres are important for vitally important functions. In the human skin deterioration of elastic fibres becomes visible over the lifetime of a human being from the soft, smooth and plain skin of a baby to the tanned, wrinkled rough skin of the aged.

Our investigations took place exclusively on individuals, who had received one or several corona vaccinations, so we could not directly compare to individuals, who did not receive a corona-vaccination. The destruction of elastic fibres we saw was in comparison to the more than 40 years of pathological experience of Burkhardt and Lang. The population exposure to the toxic agent causing the elastic fibre damages must therefore have been introduced very recently. We assume that this elastic-fibre damaging toxin was the Corona-vaccination.

The detection of massive destructions of irreplaceable elastic fibres after Corona vaccination is very concerning and should be taken into account when examining individuals, who died after corona-vaccinations, but also when examining bioptic materials from individuals after corona vaccinations.

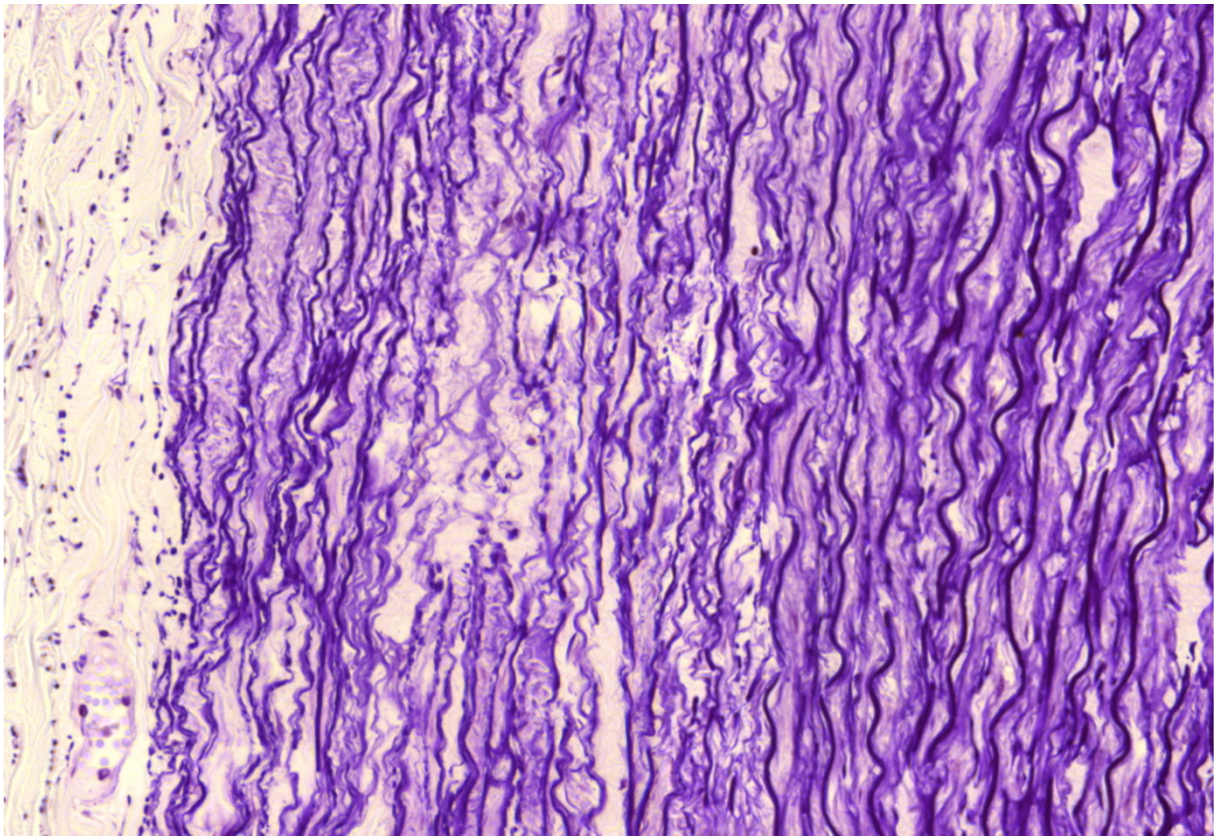

FIGURE 1: Tissue sample from a disrupted aorta: Necroses and dissection in the medium and deep layers of the tunica media with rarefication and splitting of the elastic fibres. (EVG-stain of an aorta section from a 29-year old man, who had received 2 doses of “Comirnaty” corona vaccination. He died suddenly and unexpected 97 days after the first and 67 days after the second vaccination.)

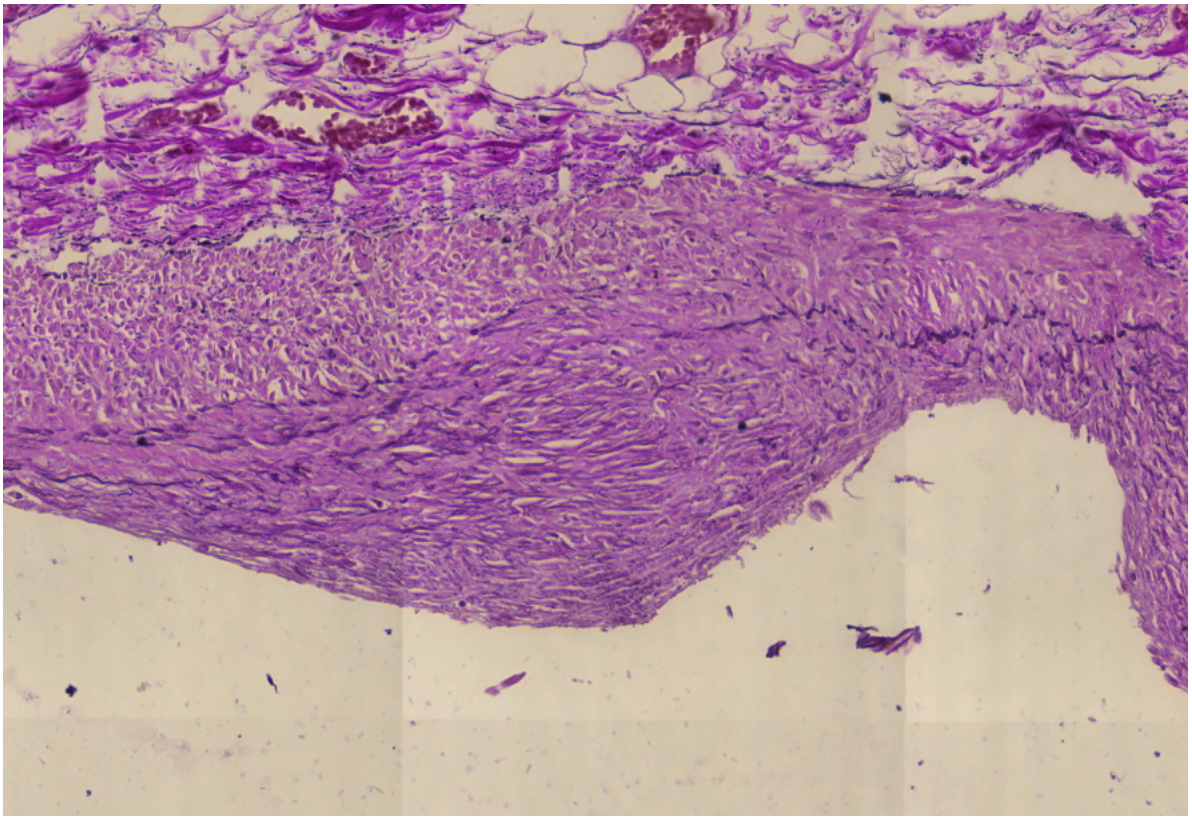

FIGURE 2: Tissue sample from a damaged coronary arteria: Intima cushion formation, no atherosclerosis. In the adjacent Tunica media splitting and fragmentation of the elastic fibres. (EVG-stain of a section from a coronary of a 41-year-old man who died during swim training for triathlon-sports. He had held on to the pool side and then sank back unconscious into the water. Exact vaccination data are not known as they were only documented in a smart phone application and could not be recovered by the father, who however was sure that his deceased son had given in to the Corona vaccine pressure in January 2022 in order to be allowed to access the swimming hall for his 7-year-old daughter's training. An immunohistological examination for the spike protein in our laboratory found clear markings of endothelial cells and weak markings of myokardiocytes, in the absence of nucleocapsid markings. This constellation confirms that one or several corona-vaccinations must have taken place).

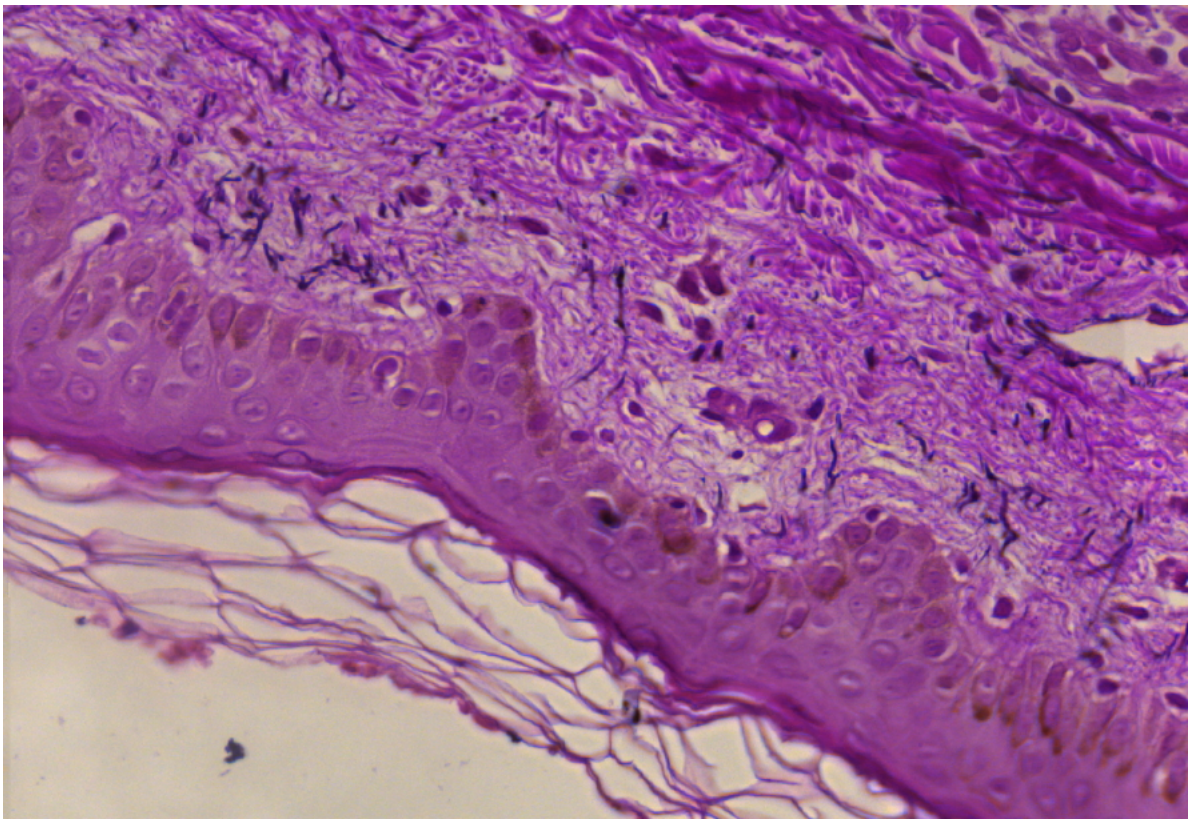

FIGURE 3: Tissue sample from a skin biopsy: Fragmentation and rarefication of elastic fibres in the dermis, especially of elastic fibres with contact to the basal epidermis, where only few stumpy elastic fibres remain (EVG-stain of a skin biopsy from a 38-year-old man, who had received 2 doses of “Comirnaty” corona vaccination and experienced a severe decline of health afterwards).

References

Powell, J. T., N. Vine, and M. Crossman. 1992. 'On the accumulation of D-aspartate in elastin and other proteins of the ageing aorta', Atherosclerosis, 97: 201-8.

Schmelzer, C. E. H., and L. Duca. 2022. 'Elastic fibers: formation, function, and fate during aging and disease', FEBS J, 289: 3704-30.

Shapiro, S. D., S. K. Endicott, M. A. Province, J. A. Pierce, and E. J. Campbell. 1991. 'Marked longevity of human lung parenchymal elastic fibers deduced from prevalence of D-aspartate and nuclear weapons-related radiocarbon', J Clin Invest, 87: 1828-34.