# Our Medical Supply Chain Needs a Strong Domestic Mining Industry

THE MEDICAL AND HEALTHCARE APPLICATIONS OF MINERALS

Minerals and metals are essential to our modern medical world and are key tomany of the medicinal innovations we see today, serving as the building blocks of the life-saving medical devices and medications that doctors and patients rely on every day. The antimicrobial and antiviral properties of minerals have never been more relevant or needed.

# Copper

Not only can it be found in MRI scanners, copper is also critical to inhibiting the spread of viruses and Âs thererfore used across a variety of medical equipment and applications.



Copper is resistant to corrosion, ductile, malleable and the only solid metal to be registered by the EPA as an antimicrobial touch surface.

When influenzas, bacteria like E. coli, superbugs likeÁ MRSA, or even coronaviruses land on copper, they beginÁ to die within minutes and are undetectable within hours.

# Gold



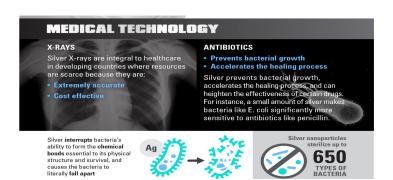
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^~ ¾ { ^} æÆmcluding lifesupporting devices, pacemakers, heart Æstents, CAT Scan devices, and it is used in Æhe treatment of heart disease.

# Lithium

Lithium is widely utilized in pacemakers, defibrillator machines and other types of portable electronic equipment.

### Silver

Silver is an active ingredient in medical products as it prevents bacterial growth and accelerates the healing process. Because of this, silver is a present ingredient in a number of antibiotics. In fact, a small amount of silver makes E. coli bacteria significantly more sensitive to commonly prescribed antibiotics like penicillin.



### **Platinum**

Platinum group metals help fight cancer as active ingredients in chemotherapy drugs and in implants for radiation therapy. And because of their resistance to corrosion, they are also often found in medical devices such as pacemakers, implantable defibrillators, catheters and stints.

### **Titanium**

Titanium, which is resistant to bacteria, is a critical component in surgical equipment.