GE Healthcare

VolumeRAD advanced application provides additional clinical information

Images and case courtesy of:
Bonnyville Health Centre
Alberta, Canada
Diana Levasseur, Diagnostic Imaging Supervisor

History

A patient was admitted into Bonnyville Health Centre's ER with a head and neck injury. The ER physician ordered cervical spine X-rays. The odontoid image demonstrated a black line on multiple odontoid views, indicating a possible fracture.

VolumeRAD imaging

The ER physician didn't feel comfortable diagnosing the injury based on routine X-rays, but Bonnyville Health Centre didn't have a CT scanner on-site, which created a dilemma for the patient and the staff.

If the spine imaging could not be cleared through general radiography, the patient would have to be transported four hours via ambulance to the nearest trauma hospital with access to CT.

To avoid this long – and costly – trip, a technologist recommended performing a VolumeRAD™ radiographic study to help determine exactly what the black line on the odontoid image was.

Diagnosis and treatment

The VolumeRAD study provided additional, valuable clinical information without a CT exam.

The more detailed images allowed the ER physician to clear the spine in a single session and prevent the patient from enduring a lengthy trip in an ambulance. This quick and thorough diagnosis pleased both the patient and the staff.

Conclusion

This VolumeRAD case offers a unique look into how digital radiography can help physicians provide a better diagnosis through clearer images. It shows how this advanced imaging technology isn't just for the biggest hospitals in the biggest cities.

DR1 image

DR2 repositioned image

VolumeRAD image

GE Healthcare
3000 North Grandview
Waukesha, WI 53188
U.S.A.
www.gehealthcare.com

imagination at work

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