Coronary stent mimicking as foreign body in the left bronchus in an elderly woman with acute onset of cough: a confusing artefact

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DESCRIPTION

Coronary stents can sometimes produce a confusing picture on routine X-rays which can mimic a foreign body if the clinician is not suspicious of this artefact which may lead to inappropriate treatment in an appropriate case scenario. We present an interesting case of an 85-year-old woman who presented with an acute anterior wall myocardial infarction. She underwent angioplasty with stent to left anterior descending (LAD) for a proximal LAD lesion (figure 1A,B, videos 1–2). The patient had been implanted with a 3×18 mm Sirolimus eluting stainless steel EXCEL stent. The stents made of stainless steel can be better seen on the X-ray or fluoroscopy than the stents made of cobalt-chromium. The main reason for this is the strut thickness of the cobalt-chromium stents is smaller than the strut thickness of the stainless steel stents.1,2 The patient was subsequently discharged after 3 days.

One month later she presented to a local physician with dry cough which had abruptly worsened. Based on chest X-ray a foreign body in the left bronchus was suspected and the patient was referred to a pulmonologist and a bronchoscopist for extraction of the ‘foreign body’. The patient was evaluated by the pulmonologist and a bronchoscopic evaluation was planned but the repeat X-ray and the clinical scenario seemed inappropriate for the diagnosis and the patient was referred back to us for fluoroscopic evaluation and further management. As soon as fluoroscopy was performed we immediately realised that it was actually the stent which was apparent on the routine X-ray as a...
foreign body because of the overlap on the two structures and the only treatment which the patient required was to replace the ACE inhibitors (figure 1C,D).

This case illustrates the importance of this high index of suspicion for this confusing artefact and good clinical judgement and appropriate investigations in dealing with such cases.3–5

Learning points

▸ Stents can present as a confusing artefact on the X-ray and can mimic a foreign body if the index of suspicion is not high and should be kept high on the list of differentials in such X-rays.

▸ In case of such confusion a fluoroscopic evaluation or a lateral X-ray and an appropriate clinical history and evaluation can be of great help and can avoid unnecessary investigations and treatments as in our case.

▸ ACE inhibitor induced dry cough should always be kept high on the list of differentials in any patient who presents with abrupt onset of dry cough without any other obvious explanation especially if the patient does not have symptoms of heart failure and orthopnoea although lung malignancy should be ruled out in case of an elderly patient as in our case.

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REFERENCES