Image Diagnosis: Pneumomediastinum

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Figure 1. Anterior-posterior chest radiograph
An adolescent girl, age 14 years, presents to the Emergency Department after one week of cough with chest pain, neck pain, and shortness of breath.

Chest radiograph shows pneumomediastinum. Air is seen outlining the mediastinal structures and the pericardium. Pneumomediastinum can occur because of the increased pressures seen with sneezing, coughing, vomiting, and theValsalva maneuver.

Figure 2. Anterior-posterior neck radiograph
Anterior-posterior view of the neck in the same patient shows significant subcutaneous emphysema throughout the neck soft tissues extending into the upper chest.