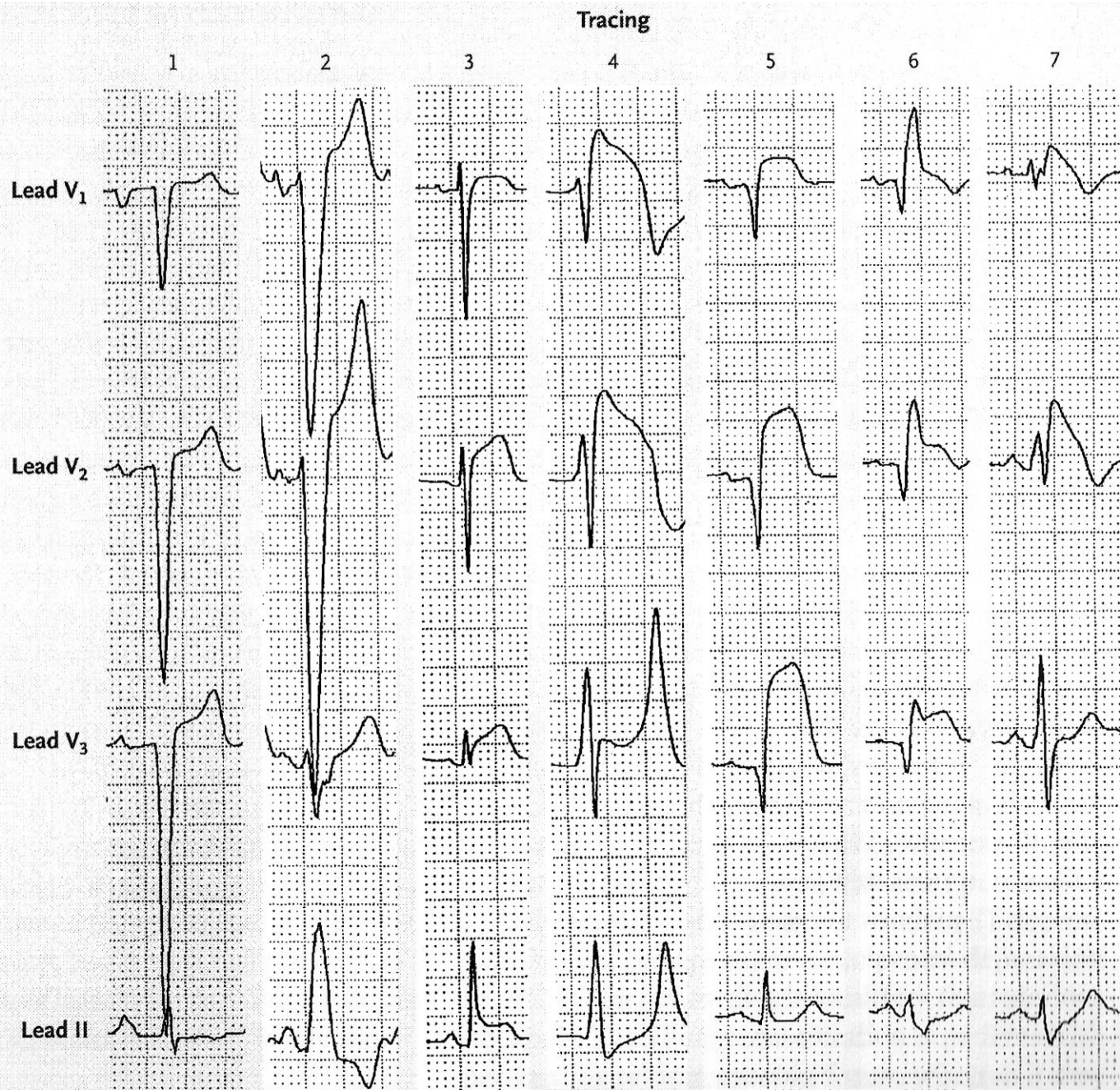


ST-Segment Elevation in Conditions Other Than Acute MI

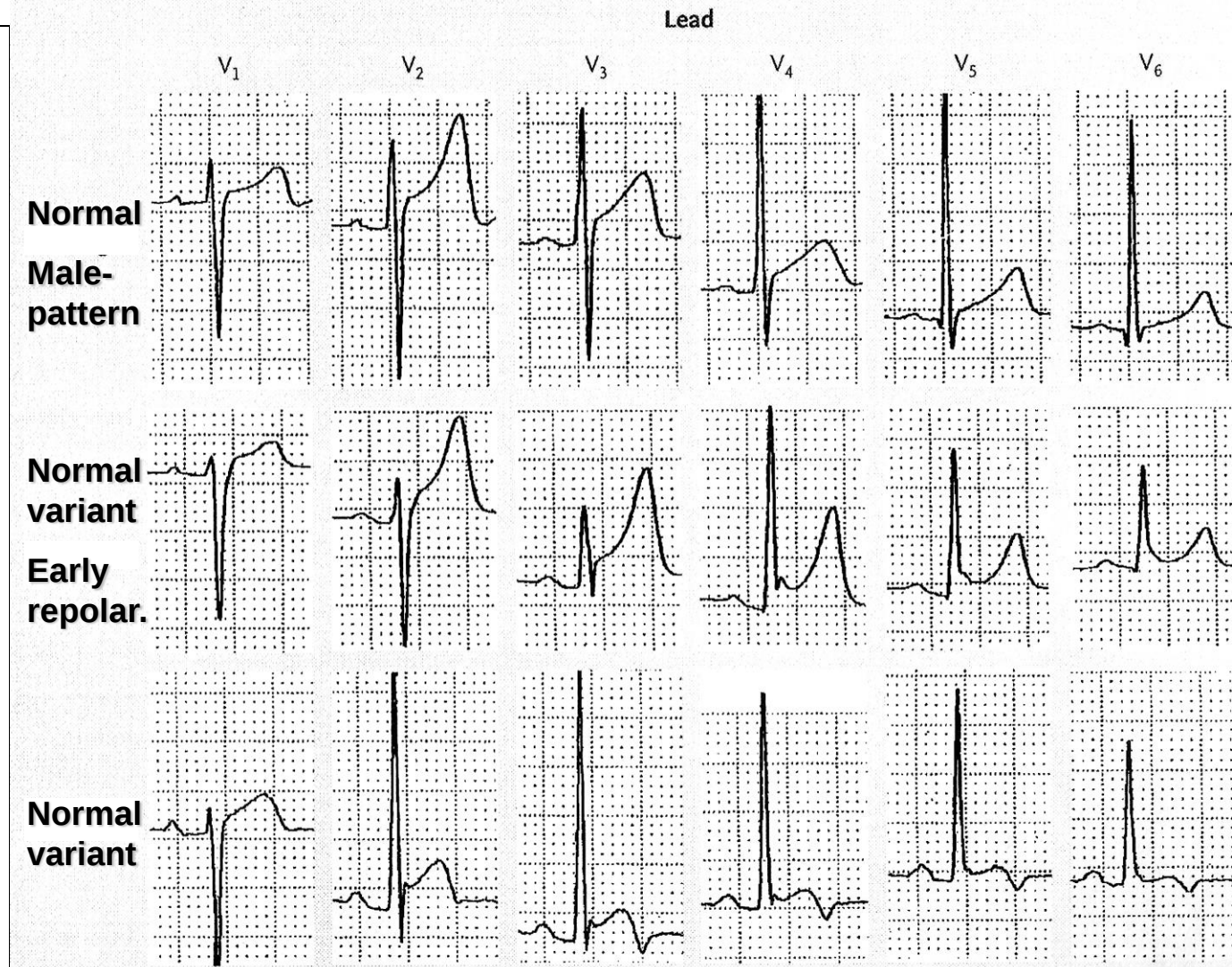
NEJM 2003;349:2128-35



- Hyperkalemia
- LVH
- Brugada synd.
- LBBB
- Acute MI (anteroseptal)
- Acute Pericarditis
- Acute MI + RBBB

Normal ST-elevation and normal variants

- ST↑ 1-3mm in ≥1 precordial leads
- Concave!
- MEN ♂
 - >90% of young (17-24) healthy men
 - ↓ with age
 - 30% ≥ 76 y
- WOMEN ♀
 - 20%
 - No change with age



Conclusion

- Chest pain + ST↑ in Emergency Dep.:
 - No MI in 171 of 202 (85%) *J Emerg Med 1998*
 - No MI in 63 of 123 (51%) *Ann Emerg Med 1994*
 - LVH, LBBB, Normal variants, vent. aneurysm
- ST↑ and thrombolysis:
 - No MI in 10 of 93 (11%) *Am J Cardiol 1994*
 - No MI in 35 of 609 (6%) *Ann Emerg Med 1996*

Take home message

- Early reperfusion: “time is myocardium”

however

- Be aware of other causes of ST $\uparrow$
- Be familiar with ECG criteria