



# *Text Book of* **Public Health and Community Medicine**

*Chief Editor*  
**RajVir Bhalwar**

*Editors*  
**Rajesh Vaidya, Rina Tilak, Rajul Gupta, Renuka Kunte**

*Published by*  
**Department of Community Medicine**  
**Armed Forces Medical College, Pune**

*In Collaboration with*  
**WHO, India Office, New Delhi**



## **Text Book of Public Health and Community Medicine**

**First Edition, 2009**

### **Published by**

Department of Community Medicine, AFMC, Pune in Collaboration with WHO, India Office, New Delhi

### **Design & layout by**

Anand Dixit, Team Advertising, 431 Shaniwar Peth, Pune 411030 Tel: 020-24492123

Member of Worldwide Beta Testing Team (CDGS Ver X4), Corel Corporation, Canada

### **Printed by**

Gayo Enterprises, Sector No.28, Plot No 234, PCNTDA, Pune 411044 Tel 020-24531355

---

The Editor takes no responsibility for the views expressed or the material submitted by the various contributors to this Textbook of Public Health & Community Medicine, First Edition

---

Copyright © 2009 Dept of Community Medicine

---

All intellectual & professional rights are reserved with the respective authors and the chief editor. No part of this publication may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying, recording or any information storage or retrieval system, without permission in writing from the respective authors and the chief editor. The publication may, however, be freely reviewed or abstracted for academic purposes but not for sale nor for use in conjunction with commercial purposes. A mention of specific companies or specific manufacturer product does not imply that they are endorsed or recommended by Armed Forces Medical Services.