tubersulin test in chronic and recurrent chest diseases in infants and preshool children

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.urn RECOMMENDATIONSThe present study was conducted on 40 infantsand children of the preschool age, who suffered achronic or recurrent chest troubles. Most of themwere regular visi tors of Pediatric Chest Clinic of the children's hospital, Ain-shams University. This work aimed to find out the significance and validity of tuberculln test. а diagnostictool in chronic and reourrent conditions including tuberculosis in preschool age and infancy. These (40) cases were olassified into three groupsThe first is that oftuberoUlous patients which included(12) o~ses. The second one is that of asthmatic patientswhioh included (23) cases. The third group included (5)cases who are non tuberculous non asthmatic cases. A control group of (15) normal children were included of the same age and socioeoonomic class with no historyof ohronic or recurrent ohest troubles.A full history was taken from each of the subjectsof the study. Bach one was submitted to a thoroughclinical examination. The 40 cases were subjected to-151a set of laboratory tests (hemoglobin percentage,total leuoooytio oount and sedimentation rate). Inaddition to pla1J1x. rayon the ohest in posteroanteriorand lateral vi••••All the (40) oases and the (15) eontrol subjectswere tested by tuberoulin. The tuberculin used inthe study is that P.P.D. of new and valid batches.Intradermal injection of o.hAl ot ~ ro wasperformed to each ~bject in the study. The recordot induration was taken after 48 - 12 hours of theinjeotion positive reactiont were those only withinduration exceeding 9 mm in diameter, and negativereactions it induration was less the 10 I11III. The tuberoulous group ot patients showedtuberculin positivity ot (5~). This group also gavea history ot BOG vaooination in (33.~) only. Thehistory of household contact was also (33.3%) only. The non tuberoulous group i.e. the second, the third and oontrol group, showed tuberoulinreactivity in (16.~) only. The history of householdcontact was only (6.9%). The history of BOG vaccinationwas positive in $t\sim$)(iSS)The validity of tuberoulin test as a diagnosticmeasure for tUberculosis in that study was assessed by the sensitivity and specificity. The sensitivitywas only (50%), While the specificity was (83.7%). Thus it is obviously observed from tHis studythat tuberoulin test is not a good positt*- test inthe diagnosis of tuberculosis, but it is a goodnegative test. Also this study showed that from the whole casesi~oluded (55) the history of ~OG vacoination was onlyin (29) cases i.e. (52.1.')ot these (29) vaccinatedones only (7) Showed reactivity to tUberculin, i.e.(24.lt). It is worthy to mention that the majority of oases with history of vaocination laoked thepresence at the scar of BOG.Pram this study the following recommendationsIldgh-I: be of value ,_1. A revision of the used teohnique and oonditionsof BeG vaooination in different pla6es asMaternal and child Health Center., health5'ffloe"rural units etc ••, should be con.idered.-1592. A reVision o:fmeasurs o:f:BOG application to the 1n:tants as an obligatory vaoc1neand its timingshould be remodeled. to be more strict and rapidlyadminstered Soon a:fter birth .instead of waiting the40 days.3. The praot10ner should pay h.is attention to anyhousehold tuberoulous cases instead of giving allattention to a tuberoUlous mother only.4. fhe diagnosis of tuberculosis in ohildren isinitiated by 8Uspec10n as a halfway :for the :finaldiagnosis.5. The Use o:fP.II.n of 5 m is more rewardingthat one or two TO :fordiagnosis of tuberculosis.6. A rewarding screening of tuberculosis in thepediatric age groUp should involve a wider group o:fillness than those related to chrOnic or recurrentchest troubles.7. A low sensitivity or react.ivity to tuberculintest 1s e%pected to cocur in the infante and thepreschool age groUp in a society like ours wheremalnutri tion and :fl'e,quentacute illness prevail.