

College of Applied
Medical Sciences

Radiologic Technology
Department

Seminar Title:
ASSESSMENT OF
RADIOACTIVITY IN
SELECTIVE
ENTERTAINMENT
AREAS IN THE
QASSIM REGION

Presented by:
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College Auditorium
Tuesday – 12 pm
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Radiation background has been existing from the ancient of earth crust being with variable level over the universe; it has been assessed using sampling radiation survey technique and radiation survey meter (Geiger Muller) covering an area of 1.5 km² from Albukairiya and Riyadh Al-khabra deserts. The detected radiation level was γ -radiation (0.1 μ Sv/h) and other particles as α and β ; (0.09 μ Sv/h) with variable level (0.08 – 0.12 μ Sv/h) in Albukairiya desert. While in Riyadh Al-khabra desert; the exposure level showed γ -radiation (0.12 μ Sv/h) and other particles as α and β ; (0.01 μ Sv/h). And relative to depth profile study; the dose at surface (0.18 μ Sv/h) was less than that at depth 50 cm (0.22 μ Sv/h). The public will be exposed to 3.5% of the MPD per year; case the average trip of entertainment frequencies as 5 hours/day, three times per month during a year; hence accordingly the relative biological radiation diseases could be contemplated.