

SCIENTIA INTERNATIONAL

NOVAS DEL MENSE IN INTERLINGUA

Statistica Vital.—In 1959, le numero total del mortes in le Statos Unite esseva 1.659.000, incluse 0,7 pro cento causate per tuberculosis, 1 pro cento per suicidio, 1 pro cento per cirrhosis hepatic, 1 pro cento per malformaciones congenite, 2 pro cento per diabete mellite, 3 pro cento per influenza e pneumonia, 16 pro cento per cancere, e 55 pro cento per morbos cardiac e circulatori. Iste ultime categoria contava 915.610 mortes. In 1957, solmente 891.825 mortes habeva esseite causate per morbos del corde e del circulation. Ab 1957 ad 1959, etiam le mortalitate per cancere monstrava un tendentia augmentatori. Le totales in le duo mentionate annos esseva 253.183 e 259.090 mortes per cancere.

Technologia Medical.—Un auriphono, que es inserite non in le aure sed in un dente (e ergo deberea esser appellate un "dentiphono") esseva patentate per duo inventores de New York. Le apparato es un micrissime receptor endodontic que es connectite con le cerebro via le systema nervose facial. Le inventores assera que le audition via lor "dentiphono" non differe del audition auricular normal.

Recercas de Cancere.—Le uso de un droga experimental in septe desperate casos de cancere al Centro Medical Albany (in Albany, New York) resultava in tres in un serie (ben que reversibile) pericarditis (i.e., inflammation del sacco que involoppa le corde). Esseva trovate que le droga in question non es promittente como agente cancerotherapeutic, sed le caso es reportate proque effectos nocive in le corde es probabilemente pauco exceptional in le experimentation con le semper crescente arsenal de compositos testate e a testar in le tractamento de cancere. Reportate per Drs. R. C. Yates e K. B. Olson.

Technologia Atomic.—Le recentemente effectuate forationes submarin (parte del projecto "Mohole" que visa ultimamente a penetrar in le mantello del terra) ha demonstrate, secundo Prof. J. D. Isaacs del Institution Scripps de Oceanographia a La Jolla in California, que il es technicamente possibile pro le industria de energia atomic solver le problema del rejets radioactive per deponer los in excavationes specialmente facite pro iste objectivo al fundo del oceano. Le systema requirerea le servicio de un grande nave que colligerea le rejets periodicamente in le grande portos del mundo e que esserea equipate con le machinas necessari pro executar labores foratori a multo grande profundores submarin.

Agronomia.—Le production de ris in West-Africa pote esser grandemente augmentate per exploitare, pro iste objectivo, le enormemente extense paludes de mangliero in ille parte del mundo. Le Organisation pro Alimentos e Agricultura del Naciones Unite ha establite un serie de stationes de recerca e experimentation risicultural in Senegal, Sierra Leone, Nigeria, Ghana, le Costa Eboree, e altere pais west-african e reoprtta promittente successos preliminar. Pro adjutar West-Africa a devenir un del macroproductores de ris del mundo on ha ancora a solver complexe problemas technic, industrial, e etiam sociologic, sed le prospectos es incoragiant secundo Sr. N. Parthasarathy, qui es un experto de risicultura in le servicio del mentionate organisation.

Physica Atomic.—Al Centro Medical del Universitate Cincinnati, experimentos con rattos ha monstrate, non inexpectatemente, un alte grado de retention intracorporee de diverse injicite doses de cesium-137. Pro render le exposition del animales a cesium-137 plus "natural" (i.e., pro simular plus proximemente le conditiones de un explosion atomic accidental

o bellicose), le injectiones del radioisotope esseva combinate con le exposition del animales a irradiation ionisante. Esseva trovate, satis inexpectamente, que le irradiation reduceva le retention de cesium-137. Le mechanismo de iste effecto pareva esser que le irradiation stimulava le urination, con le resultado de un plus marcate excretion urinari del radioisotopo de cesium-137.

Alimentos.—Dr. D. MacDougall del Corporation Chemagro reporta que fluorescentia sub irradiation ultraviolete representa le plus sensibile methodo de deteger e mesurar residuos de insectidas que es a vices presente in alimentos. Le methodo es applicabile solmente si le substantia a deteger es fluorescente, o si un substantia fluorescente pote esser producite ab illo.

Historia de Medicina.—Dr. J. T. Rowling reportava al Societate Royal de Medicina in London que nove technicas de examine radiologic permette le observation de multe previeamente inaccessible detalios medical in le ancian mumias de Egypto. Le pharaon Siptah suffreva de pede equin e Rameses V, apparentemente, de variola. Altere morbos detegite in le mumias include pneumonia, appendicitis, calculo biliari, e tuberculosis. In general, le mesme morbos que es frequente al presente tempore esseva etiam frequente in ancian Egypto, con duo exceptiones: le mumias non exhibi symptomata de syphilis, ni, probabilemente gratias al conformation de lor sandalias, de deformationes del halluce.

Recercas de Cancere.—Dr. D. Agostino e Dr. E. E. Clifton del Centro Memorial de Cancere Sloan-Kettering e Dr. C. E. Grossi del Institutos National de Sanitate reportta que injectiones de heparina grandemente reduceva le numero de cellular cancerose in le sanguine de rattos que previeamente habeva recepte inoculationes de 300.000 cellulas de carcinosarcoma Walker 256. Multe experimentos additional con animales es necessari ante que simile experimentos pote esser tentate in humanos.

Chimia.—Le Consilio del Union International de Chimia Pur e Applicata ha adoptate carbon-12 como standard pro le calculation del pesos atomic de omne le elementos. Iste action del Consilio, prendite a su recente reunion in Montreal, confirma le previe decision del correspondente organisation international de physicos. Previamente le standard generalmente acceptate esseva oxigeno natural (un mixtura del isotopos 16, 17, e 18) in le chimia e oxigeno-16 in le physica. Le Union International de Chimia Pur e Applicata representa chimistas de omne partes del mundo, incluse le pais communista. In le longe controversio que precedeva le adoption del nove standard le lineas de division non esseva "inter le nationes" sed plus tosto inter le varie brancas de scientia interessate.

Glaciologia.—Le glaciologo russe, A. V. Shnitnikov, predice que le regression del glaciers del mundo, arrestate durante le passate duo deceninos, va recomenciar e continuar pro multe seculos.

Hygiene Oral.—Le otologo, Dr. R. G. Ralph, ha notate que masticadores de chicle mastica quasi semper unilateralmente, con le frequente resultado de dolores in le aure contralateral. Therapia: Masticar ambilateralmente.

Television.—Dr. S. Deutsch del Instituto Polytechnic Brooklyn ha disveloppate un systema de transmission de signales de television que emplea undas curte de 45.000 cyclos per secunda in loco del microondas de 4.000.000 cyclos per secunda que es communmente utilisate.

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