

SCIENTIA INTERNATIONAL

NOVAS DEL MENSE IN INTERLINGUA

Recercas de Cancere.—Un nove technica se ha provate promittente in le inactivation del glandula pituitari effectuate como parte del therapia de cancro mammari. Tal cancro require pro su crescentia certe hormones que es fornite per varie glandulas del organismo in responsa a stimulos veniente ab le pituitario. Pro interromper iste cyclo, on effectua frequentemente in casos de rapidamente crescente cancro mammari un excision del pituitario, e il es iste satis complexe e riscose operation que es reimplantate in le nove technica (disveloppate al Universitate California a Los Angeles) per le implantation intrapituitari de micre granos de metallo radioactive. Iste implantation se effectua satis simplemente per medio de un agulia cave que es inserite in le pituitario via le naso e le sino. Le effecto del radioactive granos de metallo es le destruction del glandula pituitari.

Recercas de Febre Rheumatic.—Le reporto de un studio cooperative britanno-canadiano-statounitese del historia quinquenne de 497 juveniles con febre rheumatic revela que aspirina como agente therapeutic contra iste morbo non es minus efficace que le agentes hormonal ACTH e cortisona. Le studio etiam demonstra que le prognose pro patientes con febre rheumatic es relativamente favorable si al commencement del tractamento le corde es libere de inflammation. In le gruppo studiate, le mortalitate quinquenne esseva solamente tres pro cento. Le reporto conclude que iste excellente resultado es solo secundariamente le effecto de moderne methodos de tractamento de febre rheumatic per se sed primariamente le producto de factores indirecte como le disponibilitate de penicillina e sulfadiazina, le melioration del standards de vita in le population in general, e etiam le alteration que ha occurrite in le historia natural del morbo mesme.

Piscicultura.—Expertos de gustation in Wisconsin ha constatate experimentalmente que le gusto e le aroma de pisces es afficte recognoscibilemente (e adversemente) per le presentia de effluxus industrial in le aquas ab que illos es prendite. Variations natural—profundor del aqua, turbiditate de illo, etc.—non pare haber ulle tal effecto. Etiam le sexo, le peso, o le longor del pisces non influentiava—in ille experimentos—le gusto e le aroma del pisces a grados detegibile per le expertos gustatori.

Telecommunications.—Cinquanta satellites del typo "Courier" sufficere pro le establishmento de un servicio omniglobal de telephono e de television. Le costo total esserea "solmente" cento septanta millones dollars: cento pro le satellites mesme e septanta pro le stationes terrestre. Per ommitter le television, on sparniarea cinquanta-cinque millones. Iste cifras pare "astronomic", sed in proratation al singule canal de communication le costo de un tal systema esserea minus que in le caso del cablos transoceanic conventional. (E le existente cablos non es capace a portar signales de television.)

Statistica Medical.—Le practica que gruppas de medicos private organisa estableimentos a base cooperative (con secretarias, archivos, equipamento, etc. in commun) es multo popular in le Statos Unite. Intra iste systema, un forte tendentia se nota de render le cooperation ancora plus intime, i.e. de constituer le gruppas individual ex representantes del major specialitates medical de maniera que le patiente pote satisfacer omne su requirimentos — non importa quanto diverse e specialisate—in un e le mesme loco. Assi non solamente le secretarias sed etiam le patientes, non solamente le equipamento sed etiam le revenitos es partitionate inter le medicos. Le numero total de iste typo de

establimento in gruppo se ha triplicate deposit 1949. Le statisticas pro 1959 indica le existentia de 1.154 gruppas multi-specialista medical in le Statos Unite, con le participation—a plen tempore o a tempore partial—de circa 15.000 medicos individual. Il es interessante notar que quasi 65 pro cento del total de tal estableimentos medical in gruppo es incontrate in le statos del centro del pais. Le resto se distribue in duo portiones quasi equal inter le statos al costa del Pacifico e illos al costa del Atlantico.

Demographia.—Le scholas del Statos Unite alberga currentemente 45 millones scholares e studentes. In 1980, iste numero va haber crescete a 59 millones. Iste disveloppamento va sublevar formidabile problemas pro le quales nulle solution es preste. In contemplar los on comencia comprender que le "explosion del population mundial" (del qual multo es dicite e scribite) es profundamente problematic non solamente ab le puncto de vista del provision de alimentos.

Telephonia.—"Telephons de securitate" (patente sollicitate) es jam disponibile al policia e al autoritates militar e va tosto esser lanceate al mercato general. Le invention es un accessorio portabile que functiona con transistores, require nulle energia externe, e es combinabile con non importa qual telephono private o public. Illo servi a disorganisar electro-acusticamente le elementos del parola ante lor transmission e subsequentemente a re-organisar los pro le comprehension del audiente. Le systema complete consiste de duo apparatus in correlation specific e exclusive.

Computadores Electronic.—Le laboratorio de radiation del Universitate California ha installate—specificamente pro labores connectite con recercas fundamental de physica nucleari—un computator digital denominate UNIVAC LARC que contine 80.000 transistores, es capace a facer 250.000 additiones o 125.000 multiplicationes per secunda, possede un memoria magnetic con un capacitate de 97.500 parolas o cifras (de usque a 11 positiones), e ha accesso a tambures mnemonic con un capacitate additional de sex millones parolas. Le computator pote reager a 76 differente instrucciones. Su mechanismo imprimatori produce 720 lineas per minuta. Per medio de un accessorio photographic, iste rendimento pote esser augmentate a 9.600 lineas per minuta.

Astronautica.—Signalava Dr. C. S. Pittendrigh del Universitate Princeton in un interview que le vita human es rhythmic, cyclic, periodicitari. Sub conditiones normal, le contento de sucro in nostre sanguine, le activitate de nostre glandulas endocrin, e multe altere parametros e agentes de nostre organismo cresce e declina con le alternation de die e nocte. Dr. Pittendrigh opina que un simulation artificial de die e nocte va esser indispensable pro le occupantes de astronavas futur pro evitar varie generes de serie dysfunction physiologic e etiam psychologic.

Computadores Electronic.—Le si-appellate "cerebros electronic" manipula le information presentate a illos in le forma de lo que on designa como "lingua de computator". Infelicemente, diverse systemas utiliza diverse linguas de maniera que per exemplo un computator IBM non "comprende" un computator Sperry-Rand, i.e. que le rendimento del un non es re-utilisabile in le altere. Effortios de standardisation e le production de transversores ha essite initiate per 24 del firmas active in le campo.

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GENERAL SCIENCE

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