FUNDING OF THE CHILDHOOD VACCINE PROGRAM

HEARING

BEFORE THE

SUBCOMMITTEE ON SELECT REVENUE MEASURES

OF THE

COMMITTEE ON WAYS AND MEANS HOUSE OF REPRESENTATIVES

ONE HUNDREDTH CONGRESS

FIRST SESSION

MARCH 5, 1987

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For sale by the Superintendent of Documents, Congressional Seles Office U.S. Government Printing Office, Weshington, DC 20402 Chairman Ranger. Thank you. Whom do you represent, Mr.

Butler?

Mr. Butler. I started working on the cost of a vaccine compensation program for the American Academy of Pediatrics in 1984. In fact, I was introduced to the academy by Mr. Jeff Schwartz, president of Dissatisfied Parents Together. In 1986, I updated the 1984 cost study. The 1986 study was sponsored by the academy and three drug companies; Merck, Lederie, and Connaught. My most recent work which is reflected in today's testimony has been sponsored by the academy and Merck.

Chairman RANGEL Now we hear from the Dissatisfied Parents

Together, Mr. Schwartz.

STATEMENT OF JEFFREY H. SCHWARTZ, PRESIDENT, DISSATISFIED PARENTS TOGETHER

Mr. Schwartz. Thank you, Mr. Chairman.

I am Jeff Schwartz. I am the president of Dissatisfied Parents To-

gether, and I appear here today on behalf of that group.

We, like the academy, joined in support of the initial legislation. We are here today to assist the subcommittee in devising appropriate funding legislation. Our group calls itself Dissatisfied Parents Together because our children have been killed or permanently brain damaged by legally mandated childhood vaccines. The law said we had to give these vaccines to our children supposedly to protect their health, but the law did not see to it that these vaccines were as safe as they possibly could be. And when our children suffered instead of benefitted from these vaccines, the law, at least

until recently, turned its back and looked away.

The timing for this hearing is particularly poignant for our family, Mr. Chairman. Last week my wife and I should have celebrated the sixth birthday of our daughter Julie. Instead, later this month, we will be paying our third anniversary visit to her grave. She died as a result of a vaccine-induced seizure disorder that began within hours of her third DPT shot. But it is not just our family that grieves. Families from every State in the United States have joined this mom and pop group when they discovered their children too had been permanently disabled or died from the side effects of mandated vaccines. So for 5 years this group has struggled to care for our children who survive, to hold our families together, to mourn the lost lives and dreams and potential that have been needlessly squandered, and to get the Government and the medical community to acknowledge the existence-and to honestly determine the magnitude-of this dark side of the mandatory vaccination program. We also have been pushing for safer vaccines and greater safety to prevent needless injuries in the future. Please understand, Mr. Chairman, we are not an antivaccine group. Our voice in support of getting safer vaccines and a safer system to prevent these injuries gradually is being heard.

Last year Congress passed Public Law 99-660 which included the vaccine injury compensation program. Now, this subcommittee

faces this difficult question:

How should the system be funded?

We want to be as constructive as possible, and we don't want to be dogmatic about exactly how to fund the system. So we prefer to lay out some principles that we would like to see reflected in this

legislation.

First, the new legislation needs to reflect facts, not fantasy, facts as to how many children really are permanently disabled and killed by mandated vaccines, not wishful thinking and fatally flawed studies or so called passive data bases that foolishly minimize the size of this problem, facts that spotlight the unjustified profits and unsubstantiated claims of some vaccine makers who have told the Congress that they had to raise DPT prices by almost 10,000 percent because of the so-called liability crisis, but tell their shareholders there is no problem, and then say they are setting aside a liability reserve of \$8 per dose, yet that liability reserve apparently does not exist anywhere except in the bottom line as profits, facts as to whether there really is, or ever was, a liability crisis; and facts as to whether these vaccine makers will voluntary roll back their enormous price rises if the compensation system is funded to head off the so-called crisis. Will they really bring down the price if we rely on them voluntarily to do it?

Secondly, funding should be available for all children who have been seriously injured or killed by these vaccines, not only for

those injuries and deaths that occur in the future.

I want to highlight a third point, Mr. Chairman, because this is the point that Mr. Waxman and the Treasury spokesman made and we agree strongly. Funding sources have to be reliable and adequate to pay for a lifetime of around the clock care for these multiple handicapped individuals who can't care for themselves. Unless the funding sources are reliable and assure compensation for the lifetime of the child, parents have no practical alternative but to seek compensation through the tort system.

Fourth, the funding mechanism should provide for lump sum settlements. Here I think there is broad consensus forming, or fully funded annuities backed by the U.S. Government, so that parents who are inclined to do so can confidently elect to receive compensa-

tion for their children in lieu of pursuing court cases.

Fifth, the funding mechanism needs to be reasonably prompt and result in an up or down decision. Under the law there is no enforceable deadline for compensation decisions to be made and thus the process can drag on for years. The new funding mechanism should not tamper with the law's existing safeguards. Nor should it reopen all the questions the administration wants to reopen. We have been begging the administration for positive proposals for years and we turned to the Congress only out of despair that we could never get anything from them. The tort remedy, the right of the parents to sue in the event of negligence, wrongdoing, unreasonably dangerous vaccines, or inadequate compensation must be preserved. The new funding mechanism should strengthen, not undercut, the incentives for development and use of safer vaccines.

This point, too, has to be stressed. The best way to reduce the economic costs of this program in the future is to stop the occurrence of preventable vaccine-induced deaths and disability. You have been told that a handful of kids get injured inevitably. We ask you to look behind that assertion because we think the facts

show that a number of these cases are preventable. They could have been prevented with stronger safeguards. We want you not to fund this new law in a way that takes away its safeguards.

Time limits preclude listing all our concerns here. We would be

pleased to submit our more full statement for the record.

We do want to conclude by expressing our desire to work with the staff and the subcommittee. We do think constructive proposals can be forthcoming and we do want to stand in support of properly crafted legislation, but we will strongly oppose any attempt to further restrict the parents' right to go to court to sue to protect our children's right. We ask this subcommittee to limit the scope of this legislation so it will focus on fair, adequate, reliable and appropriate funding sources and techniques for the compensation part of the law.

We urge you, too, don't assume when there is a compensation system that works that the manufacturers will bring their prices down. They have told the other subcommittees that they can't or won't do that. We ask you to look, as part of the function of this bill, to bringing down the prices. Ask the question: Why are the prices as high as they are? What is the real cost of this product? It looks like the cost of producing pertussis vaccine is 2 percent of the price which means 98 percent is going somewhere else. Where? Where, if there is no real liability reserve?

There are a number of questions that need to be asked.

We come here primarily to say we think constructive funding approaches can be found. There are a variety of funding mechanisms that can be used. We are concerned about a funding mechanism like leaving it to year-to-year appropriations. We don't want to have to fight a political battle each year, and I don't see how in good conscience we can advise our parents to give up their right to go to court and sue in return for a yearly fight to see whether or not they can get their children's health care needs met.

We really appreciate the chairman's leadership on this issue and the subcommittee's interest and we stand ready to work with you

constructively on this legislation.

[The prepared statement and attachment follow:]

Dissatisfied Parents Together (DPT) 128 Branch Road, Vienna, VA 22180 (703) 938-0773

TESTINONY SEFORE THE SUSCONNITTES ON SELECT REVENUE REASURES, HOUSE COMMITTEE ON WAYS AND REARS March 5, 1567

Jeffray H. Schwartz, Prantdon: Dissatisfied Farents Together (SPT)

Hr. Chalrman, and Members of the Subconsitten!

My name to Jeffray M. Schwarts. I am Frantdent of Steaminfied Parents Together (GPT), and I appear here today on behalf of that group.

Hr. Chairman, we walcome this Subcommittee's nonsideration of alternative seems of funding the uswly-enacted vacules injury cooperation law. We appropriate the invitation to appear before you today. In our testimony, we will briefly:

e explain who Dissatisfied Farence Together is; and set forth the major principles that we heliove should guide the development of legislation to find the vectors injury compensation

I. BISSATISFIED FARESTS TOGETHER

Our group calls itemit limestisfied Farents Together because our children here been killed or permanently brain-demaged by legally sandated rhildhood veccious. The law said we had to give these Vencions to our shildren, supposedly to protest that Bealth. But the law fide't see to is that these vencious vers as and as they possibly could be. And when our children suffered, instead of benefited, from these versions, the les--until recently-rounned his bank and looked

The timing of this hearing is particularly poignant for our family, The timing of this masting is particularly polyment for our testly, Er. Chairmen. Last week, my wife and I about have calebrated the sixth hirthday of our daughter, Julia. Insceed, later this month we will be paying our third anniversary visit to her grave. Three years have passed almos she died as a result of a vaccine-induced selects dinorder that begon within hours of her third DPT (diphtheria-partnessis-tetamus) shet.

But It is not just our family that griaves. Families from every state in the United States have jetted this "Nos & Pop" group, when they discovered their children, too, had become personnely disabled or had died from the side effects of mendated ventions.

For hearly five years, we have atruggled:

e to care for the children who survive;

to hold our families together, financially and sentionally;
to mourn the lost lives, firemen, and potential that have been psenderally squambered, and to confort each other and our children;
at most the government and the medical community to schmowledge the existence--and to housely detarwine the arguitude--of this deriv side of the mendatory veccination program;

s to push for exter vacuines, and greater safety in the way we produce, test, and educates martent vacuines.

We are not an anti-ventine group. We long for the eveilability in the U.S. of a less-reactive pertussis (i.w., whosping wough) ventine, as ispan has used effectively since 1981. And we believe parents should have the right to constinutionally object to mention ventions which needlessly jumpardize the lives and health of our children.

Gradually, our voice is bring heard. In Hevember 1985, the Congress emected Public Law 79:660, which included a national childhood vection injury companisation and asfety program. Unils than Law differed in savaral significant respects from what our group had sought, it did

represent the first official acknowledgement of these vacoine-injured whildren.

11. WHERE DO WE OU FROM HERE!

Now this Subcommittee Forms the next difficult question: How should the one compensation system be funded? We effor what we believe is a consequentian approach. We will refrace from rigid adherance as apposition to any particular funding mechanism. We would like to work with this Subcommittee and staff to develop an appropriate approach.

We de offer, besever, the following eight asjor principles that, in our view, should be reflected in this feating legislation:

- 1. First, the new legislation should reflect facts, out fantasy ...
 - facts as to bow many children really are permanently disabled end killed by mendated vancings, not wishful thinking, fatally flaved studies, of so-called possive "data heres" that Conjudy ministra the size of this problem;
 - facts to specifish the unjustified profits and nosubstantilated claims of some varying undarg, who cold the Compress they had to raise SPT vectime prime by almost 10,000s hences of the so-called "liability crisis," but who tald their shareholdars, "me problem":
 - facts as to wheeter there restly is (or ever was) a vaccine "liability crisis"; and
 - faits as to whether vaccine makers will voluntarily roll back these starsams price rises if the compensation system is funded to head off this so-called "crisis."
- Pumiting should be available for all children who have been suriously injuried or killed by these vacations, not just those whose injuries or deaths occur after enactment of this enabling legislation.
- Punding sources should be callable and sdequents to pay for a lifetime of round-the-clock care for these multiply handicapped lodividuals she damnet care for thomsaloss.
- 4. The funding manisation chould provide for twee run continuents of fully incided committee braked by the U.S. Government, on that parasits who are inclined to do so, can restitionally elect in species runpassation for their children in lies of pursuing took reactive against funcion manufacturars.
- The funding mechanism should nature a resembly prompt by or down desistor on the compensability of the claim. (Order P.L. 99-660, there is an desiline for compensation decisions to be made and thus the process may drag on for years.)
- b. The new finding law should out tamper with wristing sefeguards of F.L. 99-560 which are critical to the integrity, fairness, and workshility of that scheme. These critical sefeguards include:
 - preservation of persons' right to sue vaccine pakers and doctors in cases involving negligance, unreasunably dengarous vaccines, or compensation results which are instanguate to seek the injured shills's needs;
 - excurring that compensation dectations in spacific cases will be node by a politically-independent and recurs entity specially ruited to sujudicate vision; and

ä

assuring that any change to claim fort law resulting from F.L. 99:600 only becomes affantive with respect to apartite claims for which there is adequate and railable suspensation system funding svalighte to meet lifetime care mends of these disabled individuals.

- The new funding manhanism should strangthen, not undercut, the innentives for development and use of mater vaccines. The beer year to reduce the account outs of this program in the future is to also the occurrence of preventable vaccine induced deaths and disabilities.
- 8. The new funding exchanise should refine the fact that both the government and the vaccine makers have been responsible for there preventable injuries. For nearly 25 years, both government and the industry have known that the mily smisting "safety test" for partiasis (whosping county) vaccine is besievely irrelevant he the vaccine's potential to cause brain desegs or death. During this same paried, Fish standards have allowed the marketing of partnersis vaccines with as much as 2700% variation in petage. Builther industry nor the government has done much to develop a new sefety according test or tighter quality coursel measures.

Time limits promised listing all our concerns here. We would be pleased to endut supplementary comments in writing. We would also be pleased to must with Subcommittee mashers and staff to help define a mechanism of actions that can meat these series and the legitimate communes of others being veited today.

III. CONCLUSION

Mr. Chairman, Discottisfied Farants Ingother wheels ready to support and help ement properly-crafted lagislation to fund the ventime immunication part of f.L. 99:660. See we will attempt appears any attempt to further evertice parants' rights to go to court to sum to protect our childrens' rights. So long as a lawrent is an option, we can keep the precessor on for development and use of the affect passible ventimes for future shildren. So long as a lawrent is an option, we can held semmuntable there where magligance or callous indifference have led to our children's dustbe and disabilities. So long as a lawrent is an option, we can sessue that any compression system is a real alternative to the fault-based system, not shother way of demying the problem or attempting to seemp it shouly under the rug and our of sight.

to we imploye this subcommittee to lists the unego of this implementing legislation. We hope it will forms on Cair, appropriate, reliable, and adequate funding sources and techniques for the compensation part of the law. We hope you will also question the Legitimary of the exampliant price class which a few emphasis have imposed on the tempayor and powerless computes who are mendated by law to buy this product, no matter what the cost. We urge you to confer subpoons power in GOO to get all partitions information free all samufacturers and suppliers of sandated shitchood vaccious.

Seither the government, nor 'private industry' should be shie to hide behind a vali of sacrany when the inner colors to the arrary and fair prining of these sendatory 'public health' products. We urge this Subcomplitue to mandate a full independent investigation of the real burns for the drawto increase in vaccine prices (when only is of the price reflects production costs).

ORIGINAL ARTICLES

Neurologic complications in oral polio vaccine recipients

Between April 1982 and June 1983 four children 3 to 24 months of age were returned for evaluation of neurologic abnormalities found to be compatible with vaccine-related pollovirus infection, which had not been suspected by referring physicians. Potients were epidemiologically unrelated residents of Indiana, and none had prior symptoms suggestive of immunodeficiency. All had received policylars vaccine orally (first dose in three, fourth dose in one) and a diphliteria-telanus-periussis injection in the left anterior thigh within 30 days of symptoms. A vaccine-like strain of pollovirus was isolated from each patient, and each had symptoms (left leg paralysis in three; developmental regression, spasticity, and progressive total carebral alrephy in one) persisting for at 1. 3st 6 months. Immune function was normal in two with policying type 3 intection, and obnormal (hypogammaglobalinemia, combined immunodelciency) in two with type t and type 2 infection, respectively. The incidence of observed vaccine-related pollovirus infection in indiana recipients of gratity administered pollovinis vaccine was 0.656 per 400,050 per year, significantly greater (F <0.001) than predicted. (J Fillate 1986;108:87e-881)

John W. Gaebler, M.D., Martin B. Kleiman, M.D., Marris L. V. French, Ph.D., Gordon Chastain, B.S., Charles Barrett, M.D., and Charles Griffin, B. S.

From the Section of Infectious Diseases, Departments of Pediatrics and Pathology, Indiana University School of Medicine, and the Indiana State Secret of Health, Indianapolis

Current knowledge of the rick of poliomyclicis and the rates of vaccine-associated complications is required to determine whether the live or the inactivated poliovirus vaccine is optimal for control of poliomyelitis. In the United States, entrutation of the risk of vaccine-associated complications has relead on practicing physicians recognizing and reporting eases to state and local health departments, and utilimetely to the Centers for Disease Control. From 1969 to 1951, the "best available paralytic poliomyelitic case count" compiled by the CDC averaged four cases per year among recipients of orally atministered

Supported in part by the James Whiteenth Riley Memorial Association

Submitted for publication July 27, 1984; scenpind Feb. 28,

Reprint requests Marsia B. Kiniman, M.O., Director, Pediatric Infection Discour. James Wishcomb Riley (impital for Children, 102 flurabill 19., indiampolic, 191-4622). policyring vaccion. Although the risk to adult OPV recipients and adult contacts of vacciones is recognized by most physicians, the risk to presumably healthy infant vaccine recipions is not generally appreciated. We have recently recognized four eases of vaccine-related neurologic compil-

See related article, p. 1031.

f	BAPPOC	Bost available paralytic petis case count Computed consequently	
	DTP LPV OFV	Olphaberta-sectanas localid-pertuasis exectas learningled (editovirus vaccion Ocally administered perfective vaccion	

cations in infant vaccine recipients. All four occurred between April 1982 and July 1983 in Indiana, a state with a population of 5.5 million. In each Instance the referring physician failed to associate the neurologic absormality Volume 198 Number 6

with committration of OPV; referring diagnosis included traums in two, spinst cord tumor, and failure to thrive.

CASE REPORTS

Patient 1. In March 1983, this previously healthy 1-year-and boy had freet, irritability, and left leg weakness 23 days after the saltial doce of DTP (left amusine thigh) and OPV. The seast of symptoms was sunctioned with minur trauma, in the southing 4 days, fewer removed and he became anoble to walk, crewi, as alt. On admission the only absormatity was fleeced left leg paralysis; consisten was normal. The corebrospical fluid contained 23 WBC/men', glusces encontration was 34 mg/dl, and protein 131 mg/ell. Serum tgA was 49 mg/dl (normal 19 to 55 mg/dl), tgM 124 mg/dl (3) to 17 mg/db, and 1gG 796 mg/dl (442 to \$30 ng/dl) Seven complement, T and B sell quantitation, T sellsubarts, physchemaggiatinin lymphocyta stimulation, somutoe sory exoked responses, and computed tomography of the heast all yielded necessit course. Policylruz type 3 was indicated from sood and theore, and was characterized by the wan Wesel and Hagentions," mutteed typerformed at the CDC) as similar to Sabin strates. Serum elmained 3 to 10 works after paralysis had sentralizing activity of > 140 against policyless type 3. A completured fixation anihody that against Macquissma previousline was 1 64, 1 week wisce admittalies, and tred faller to 1.8 within 21 days. Cald agglutists, titers were 51% in both serum specimens, Cubiarra list M, presonantie were not done. Two yours later the ing finerbilly and mustle stoophy persisted; descriptions and greatly was scherwise pormat. A complete series of IPV was given, after which suntralization titers to pullerious types 1 and 3 were 2:1346. Secure recitating antibody activity failed to develop decing sof after completion of the IPV series.

Patient I. in April 1921, I wicks after receiving a fourth dose of OTP (left assertor thigh) and OPV, this 2-year-old boy had fever and left arm and leg -extrem. Until this Cinesa, the patient had been completely heauthy and had sever had any illocat to infaction suggestive of an immunodaticiancy disorder. On admission 6 days tatar he had left hemigares by with granters weakness in the leg. No other significant absormalities were found on physical examine tion: sermat typiched them, was present. The combinational field mutained 19 WHC/mm²; proxim concentration was 50 mg/di. and alsoone 71 mg/dl. CT of the beas yielded sormal findings. The ECG devicementated a flower of stars activity to the right central and semperal regions. Polisieres type 1 was induted from the named arriver, and was characterized by the CDC as Solin tax by the van Word technique. Sera obtained 1 and 2 weaks after the met of paralysis had politorinal type I nourrelienties starts of 1:16. Neutralization (liters to types 2 and 3 were <1:10. Seron igA was 2 mg/sl (seemal 28 to 74 mg/sl), 1gC 50 mg/sl (553 or 971 mg/di), and tght 12 mg/di (27 to 73 mg/di). Mumps and Counties ship sees produced teactions. Peripheral Model lymphocytes lecteded 3% B calls: T calls, T call subcats, and helper/suppressur ratio weer normal. Two conside taxer the left arm weakness had sensived and the UCG was normal. Floreid paralysis and number atrophy of the left fog persisted. Intrareso ly administrated gammagiciselies theoryty was begon. The patient has remained in good localth, with infrozents, mild requirestory tract infections, and the paralysis has persisted. He qualified to require gammagintedis supplements for homosel immunately stracts.

Patient 3. This 9-month-old buy was referred for evaluation of failure to theire and dancioperatual regression in June 1982, At 6 comiles he sat abore, attempted to srawf, and bubbled, life rearised duces of DTF and OPV at 4 number, and again at 6 months of age. At 7% months he became liation, verbal activity decreased, and spontaneous six of the left arm and ing decreased elightly. Complete evaluation for federe to thrive and slow develop I scentths of age concluded with a diagrastic of cerubral pulsy of undetermined urigin. At admission he was alert, did not verballen, and had spends quadripactels with discrepted sec of the left side. Contropping Buil, CT of the head, and serve conduction velocities were all turnings. An ECG thoused mild generalized countral hemispharic dyelinection. Serem 13A concentration was 40.3 rog/dl (corrowl 19 to 55 mg/dl), lgG 7 mg/dl (442 to 826) mg/fills, and tgMt 2.4 mg/dl (21 to 17 mg/dl), fillood lymphocytes were 16% T cells and 38% & cells, Y cell subsets were 15% Td and 18% 18. T sell respons to physicamoggleticks was markedly depressed. Poliovinus type I, shurscurrized by the CDC as Schoolike, was recovered from stool and throat within 24 hours of tissus inocetation: black clears (10°/mt) of poliument were recorared from both sites would death. Virus was nes lasteted from serebrospinel field. The strum IgG was malateland at 400 to 600 mg/di with lattavenumly administered generalischalin seppleneeds. At 10 months, CV showed prolound bilateral services strophy, excet searked in the frantal and temporal regime. becarelegis and respiratory function progressivity weamond, and the patient died at 21 months. Permusica for postroucess examination was refused.

Patient 4. This previously incitive 3-month-old boy eigenomaterical left log weak-past is July 1983. He was referred to a commonality hospital for evaluation of a possible spinal countement. Four weaks exister he bust received initial OTF (left anticrios thigh) and OPV. The only absorbed by at reasonable and faccid left log persigning summation was intended, Lumber pometure was out done. Profincious type 3 (COC) was instanted from stood. Secure lgG communication was 375 mg/df (portant) 111 to 349 mg/df)/16A 49 mg/df it to 34 mg/df), and lgM 52 mg/df (19 to At mg/df). Text insubsets and functions were normal. Neutraliteation there against type 3 points from over 21:22, 2 and 4 weeks after the annul of paralysis. Paralysis and left log arough persisted as 18 months; growth and development have subcrypine been normal.

DISCUSSION

The criteria used for instanting cases in the BAPPCC are illness clinically and syndemiologically compatible with poliocrychitis, paralysis, and persistent neurologic deficit after 60 days. Patients 1, 2 and 4 fulfilled these criteria. Clinical and laboratory findings in our patients were emparable to those of the BAPPCC. The CDC reported a male/female ratio of 2.7:1 in vaccine recipients. Eleven of

the 37 vacaine recipients in the BAPPCC were immunedeficient, as were two (patients 2 and 3) of our four patients. Paralysis occurred in the leg in which the DTP was administered in our patients with paralysis; such localization of paralysis by wild polis infection after intramuscular injention has been reported. No such data exist for vaccine strains. Paralysis was in a lower limb in 91% of the patients. in the BAPPCC. Evidence for vaccine polls infertion as the cause of illness in patient 3 is not definitive. This patient would not have fulfilled the criteria for inclusion in the BAPPCC. His findings were strikingly similar to those in a published report of a child with combined immunedeficiency in whom progressive hypertonis and regression of rocial and motor development resulted from persistent politorinus infection; politorirus was isolated femat throat and stool but not from CSP, which was normal. At autopay, a strain of policyleus type 2 with some disassoctation of antigen and neurovirulence markets was recurered from brain tissue. Because permission for autopsy smald not be obtained in our patient, and thus we were unable to examine or culture neural tissue, the diagrants scale not be firmly established.

The relative advantages and disadvantages of IPV and OFV have been extensively reviewed. The major disadvantuge of OPV is the potential risk of neurologic complications in vaccion recipients and susceptible contacts. The dramatic reduction of the number of cases of endemic and epidamic poliumyelitis in the United States has served to increase the proportion of cases that are vaccine associsted. From 1971 to 1981, the BAPPCC included 153 cases of poliumyellis.4 Of those, 37 occurred in vaccine recipienta, 36 in ausceptible contacts of vaccing recipients, and 60 were either sporadic, imported, or epidemit cases that could not be associated with vaccine usage. The 37 neurologie complications among vaccine U.S. recipients yielded an annual incidence of 0.002 per 100,000 population. In Indiana, we observed an annual incidence of 0.058 per 100,005 (P = 0.006), remarkably higher than enpected for the 15-month laterval. The 1980 comms estimated the fedlang hirth rain to be \$5,000 live hirths per year. A survey by the Ind'sna State Board of Health in 1980 reported that RRM of children younger than 2 years of age. had received three or more doses of OPV. Based on a similar birth rate and immunitation practices, the risk of seurologic complications annual vaccine recipients your ger than I years of age was appearimetely nee to 37,500 for the lettered during which our partients were observed. This differed with the estimate of two or these per million vaccinees reported by others.

Physicians currently in practice in the United States may not recognize the symptoms of policinystics or of

vaccine-induced asurologic complications. The annual number of reported cares of poliomyelitis fell to fewer than 0.1 per 100,000 after 1965.1 fnasmuch at more than 50% of physicians in practice in the United States completed training after 1965, many have not seen a patient with policesystitis.4 If the diagnosis is considered, laboratory confirmation may be difficult for many practicing physicians. At the time of paralysis, antibody titers have often aiready peaked and a significant change in titar is no longer demonstrable. One or more strains of vuccins pollovirus may be excresed in the stool for several months after immunization. Because infection with other enterestreses, and perhaps M. pneumanine, may eause paralytic disease, miture and serologic tests for these pathogens should be performed to exclude these causes. Grist and Bell' reported that serologic confirmation of policylrus infection in Scotland was most often requested by orthopedie surgeons or neurologists attending to late complications. Moreover, the facilities for viral natures are not early synilable to physicians in small community hospitals. Vaccine-related policyirus infection may not have hem considered in patient 3 if viral entropes had not been done. Although the association of complications with vectine administration can usually be made with reasonable certainty by temporal attrictation, physicians may be reluctant to do so without faboratory confirmation.

The marrent method of surveillance in the United States, that is, passive reporting of cases, may underestimate the frequency of vaccine-related complications. In other couptries, active surveillance has been shown to discover cases, more efficiently, "Finally, physicians may be healthant to extractate paralysis with the vaccine of the report varieties estactated complications for fear of potential liability. Because major sequelae appear to affect the legs in most instances, surveillance directed at patients attending rehabilitation centers, brane shops, orippied children services, and specialists in neutrology and orthopedic surgery might yield a higher instituence of receive-associated paralytic poliomyelists. Perhaps the advinctability of concomitant administration of DTP with OPV about the examined, or alternative vaccine registers applied.

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CHILDHOOD IMMUNIZATIONS

A REPORT

PREPARED BY THE

SUBCOMMITTEE ON HEALTH AND THE ENVIRONMENT

OF THE

COMMITTEE ON ENERGY AND COMMERCE U.S. HOUSE OF REPRESENTATIVES



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IV. SURVEY OF VACCINE MANUFACTURERS

A. Introduction and Methods

The shortage in the supply of DTP vaccine in early 1985 raised questions regarding the dependability of the supply of vaccines in the United States. Testimony by commercial vaccine manufacturers at the time the shortage became apparent in December 1984 suggested that certain characteristics of the vaccine market, particularly the potential for costly liability suits against vaccine manufacturers and the limited size of the market for vaccines, are threatening the reliability of vaccine supply. There are currently only a few institutions involved in the production and distribution of vaccines. There is only a single supplier of some products. Some believe that the potential of large awards in suits alleging vaccine related injuries has increased the cost of manufacturers' liability insurance. In at least one instance, a manufacturer was forced temporarily to withdraw its products from the market when liability insurance become unavailable.

In light of this situation, the Subcommittee on Health and the Environment of the House Committee on Energy and Commerce decided to survey producers of childhood vaccine products to obtain more detailed information. During the spring of 1985, the staff of the Subcommittee developed a questionnaire for this survey. The questionnaire focused on five major issues related to the production and distribution of childhood vaccines: 1) vaccine compensation litigation and claims; 2) the cost of product limbility insurance for vaccine manufacturers; 3) reseach and development activities; 4) vaccine pricing and males information; and 5) stockpiles and inventories of vaccines. Information in these areas was requested for the time period from January 1980 through March 1985. The questionnaire was mailed to the five commercial manufacturers and distributors of vaccines used in childhood immunization programs (HMR, DTF, polio and Haemophilus influensee vaccines) and to the two State organizations involved in the production and distribution of vaccines. These seven organizations completed the questionnaires and returned them to the Subcommittee.

B. Summary of Findings

1. Litigation

During the study period (January 1980 through March 1985), there were 299 suits filed against the producers of childhood vaccines seeking compensation for injuries alleged to be due to vaccines.

Nesrly 60 percent of these cases were for injuries related to DTP vaccines. Most of the 299 suits (84 percent) were for injuries related to childhood vaccines. Over the same 63-month interval, 83 claims were filed with the vaccine producers that did not result in litigation. Table 9 shows the number of suits filed by year. The rate at which these suits have been filed has increased every year since 1980.

Table 9. Humber of Vaccine Injury Lawsuits Filed by Year, 1980-1985

	Year	Number of suits	
	1980	24 29 39 70 101	
	1981	29	
	1982	39	
	1983	70	
	1984	101	.4
-	lat Qtr. 1985	36	
*)-	1985 (est.)	144	
	63-Month total	299	

Damages claimed in the vaccine injury suits fall into two catagories, compensatory and punitive damages. For the 299 suits filed during the study period, requests for damages amounted to \$3.5 billion, \$2.52 billion for compensatory damages and \$960 million for punitive damages. However, many of these suits (about 40 percent) did not specify an exact amount of damages but only requested damages in excess of nominal or jurisdictional amounts (minimum damages required for filing suit; this amount may vary from jurisdiction to jurisdiction). Given that many of these suits have not requested a specific level of damages suggests that the claims against vaccine assurfacturers are more than the \$3.5 billion in damages already specified.

Some of the survey respondents provided case by case information on requests for damages. Assuming similar patterns of requests for desages for all respondents, the data suggest that nearly half of the currently specified damages are requested by a relatively small proportion of the suits. There are an estimated 30 suits (10 percent) requesting damages in excess of \$25 million each. These cases account for an estimated \$1.7 billion (48 percent) of the total specified prayers for damages. Seven suits ask for damages in excess of \$100 million each.

The questionnaire asked for information on the resolution of vaccine injury cases. However, it should be coted that product liability cases typically require several years before they are either settled or tried in court. Thus, the following information on the resolution of vaccine injury cases filed between January 1980 and March 1985 must be considered incomplete, although it is the best information available at this time.

Of the 299 cases filed between January 1980 and March 1985, 52 cases have been sattled (17 percent), 27 cases have been dismissed on motion (9 percent), and three cases have been tried in court (about 1 percent). The remaining 215 cases (72 percent) were still pending as of Harch 1985.

The survey respondents paid out a total of \$16.2 million in settlement payments for the 52 cases that had been settled. As noted by some of the respondents, this figure does not include settlements paid during the 63-month study period on cases filed prior to January 1980.

Three of the 299 cases had been tried by March 1985. In addition, the respondents indicated that six additional cases, filed before the study period, had been tried between January 1980 and March 1985, and one of the 285 cases was tried after the close of the study period in May 1985. Of the ten total cases tried, four resulted in verdicts for the defense (three affirmed on appeal, one appeal is still pending) and six found for the plaintiffs (one subsequently settled for a lesser amount, five appeals are still pending). If the five pending verdicts are upheld on appeal, the vaccine manufacturers will have to pay a total of \$17.7 million in damages to plaintiffs. It should be noted, however, that more than half of this amount (\$10 million) results from a single verdict. Only this last verdict (recently overturned) detailed the award by type of damages: \$2 million in compensatory and 58 million in punitive damages.

The questionnaire requested data on the annual defense costs of vaccine injury litigation that was not reimbursed by insurance. The respondents spent \$4.7 million on litigation in 1983 and \$9.8 million in 1984.

2. Liability Insurance

The survey included several questions related to the liability insurance coverage of the vaccine producers. Secause the liability coverage arrangements of the two State owned producers differ from the arrangements of the five commercial producers, the responses to these questions are presented separately for the State producers.

The liability of two State organizations producing and distributing vaccines is insured by the respective State governments. Both States are self-insured and must pay any awards themselves. In one State, the State's liability for damages is limited by statute to \$100,000 per claim.

All five commercial producers had insurance coverage of their liability for vaccine injury lawsuits under unbrella policies that also covered the liability of their parent corporations for all other products manufactured and distributed. Therefore, it is difficult to separate the cost and coverage of insurance for liability related to vaccine injuries from the cost and coverage of liability insurance for other products. Also, changes in a parent corporation's premium or coverage may be related to liability for products other than vaccines.

The five commercial producers were covered by umbrells policies held by their parent corporations with total annual aggregate and per occurance liability limits of about \$1.3 billion dollars in 1985. Between 1984 and 1985, two firms increased their liability limits, one firm's limits stayed the same, and one firm's limits were reduced. The fifth firm lost its liability for DTP vaccines except for contracts existing as of June 1984 and was not able to renegotiate a new insurance contract until April 1985. The policy limits of all the policies in effect in 1984 applied to both defense and indemnity costs. This changed somewhat in 1985 when one firm's policy limits excluded defense costs for DTP vaccine injury cases.

All five commercial firms are self-insured to some extent and retain funds each year to cover any self-insured expenses. In 1985, the total self-insurance retentions of these five firms was \$41 million. This amount represents an increase of 39 percent over the \$29.5 million in self-insurance retentions in 1984. It should be noted that this level of retention is intended to cover the self-insured liability for all products of the parent corporations, not just for vaccine related liability expenses.

The liability insurance policies for all of the commercial respondents contained special previsions relating to coverage of vaccine products. Coverage for swine flu vaccine was excluded from all policies. However, it should be noted that under the Swine Flu Act (P.L. 94-380), manufacturers were generally relieved of their liability for injuries resulting from the administration of the swine flu vaccine, with the liability for such claims being transferred to the Federal Government. Beginning in 1985, two manufacturers' insurance policies impose a \$250,000 deductible for claims related to certain vaccines, subject to specified annual limits. One manufacturer's policy excludes from coverage the cost of legal defense for cases related to certain vaccines. Under this policy, the manufacturar will have to pay any costs of defending itself. The liability insurance policies are generally cancellable with 90 days notice.

In 1984, the parent companies of the five commercial vaccine manufacturers surveyed paid \$10.2 million in liability insurance presiums. This amount is slightly less than the \$10.7 million in premiums that was paid in 1980. However, it should be noted that premium data for 1985 submitted by two respondents suggests that their liability insurance premiums would be somewhat higher in 1985 than they were in 1980, representing a large one year increase between 1984 and 1985. All five respondents indicated that they expected their liability premiums to increase substantially in the near future (estimates ranging from 50 to 300 percent) for coverage with liability

limits that are 50 or more percent lower than current limits. None of the companies obtain their insurance policies through competitive bidding. According to one respondent, "the issue is availability at any price." One of the State producers once sought competitive bids for liability coverage of vaccines distributed outside its borders, but did not accept any of the bids after it realized that the revenues from out-of-state sales would not even cover the bid premiums.

In 1980, the total product liability insurance premiums of the parent companies of the five commercial respondents were approximately 0.086 percent of annual gross sales, premiums of \$10.7 million on sales of \$12.5 billion. By 1984, these premiums had declined to 0.063 percent of gross sales. During this period, gross sales increased faster than liability insurance premiums for four of the five respondents.

Finally, the questionnaire asked for information regarding losses and payments that were paid by these firms' liability insurers for varcine related claims and suits. For four of five respondents, the annual losses and expenses from 1980 through 1984 were less than their self-insurance retention amounts. That is, the insurers for these four companies did not pay out any losses. For the fifth firm, the insurer paid out approximately \$700,000 in settlement costs.

3. Research

All seven survey respondents (including the two State organizations) conduct programs of research and development for new and safer vaccines. Some of these research efforts are now in the clinical trials stage of development. The descriptions of these research and development efforts were generally vague due to the confidential nature of these activities in a commercial environment. However, it appears that some efforts are being made to develop new vaccines. Also, some of the current research efforts are being directed toward the improvement of existing products, including improved childhood vaccines.

In general, it appears that the research and development of vaccines conducted by the commercial manufacturers is financed by the individual corporations. Only one firm is currently receiving Federal funds for support of a clinical trial of a new vaccine. A second company stated that it had received \$400,000 in Federal support for vaccine research and development between 1981 and 1985. A third stated only that it had received some Federal support "at one time." Two firms stated that they had never received any Federal support for vaccine research and development.

Both State producers are also engaged in vaccine research and development with combined expenditures of \$535,000 per year. Of this amount, 56 percent comes from State funds, 30 percent comes from Federal funds, and the remaining 14 percent from private philanthropic organizations. The seven respondents currently hold 27 patents and product licenses for vaccines and vaccine production. Some of these are exclusively held.

4. Vaccine Prices and Sales

Vaccines are commercially sold in three "markets;" sales to the Federal Government (including sales through the CDC's consolidated contract purchases made on behalf of State and local governments); bulk sales to State and local governments and other large purchasers; and retail sales to physicians, clinics and hospitals. The prices charged for vaccines in each of these "markets" vary, due in part to the stronger negotiating positions of large purchasers. The ratios of prices paid in these markets vary both by vaccine and by vaccine manufacturer. Based on responses to the survey, the data suggest that vaccine prices in the bulk sales market are 0 to 50 percent higher than prices paid by the Federal Government. Retail vaccine prices range from 50 to 300 percent higher than the prices paid in the Federal market.

The two State producers do not participate in any of the commercial markets for their products. Both organizations distribute greater than 95 percent of their products within their respective State borders at no cost. One of these entities has sold some vaccine to neighboring States in response to emergency requests. In these cases, the vaccine was sold at market prices and the receiving State was required to assume all liability associated with the vaccines.

Based on the commercial manufacturers' pricing data collected by the survey, the prices of vaccines used in childhood immunization programs increased by between 30 and 900 percent between 1980 and 1984, depending on the vaccine, the manufacturer, and the market. The retail price of DTP vaccine increased by the greatest percentage, with most of that increase occurring since 1983. Prices of other vaccines increased between 50 and 200 percent, with the increases occurring relatively steadily over the 5-year interval.

There were only two instances cited in the survey of sales of vaccines between vaccine manufacturers. The first occurred in 1979 and 1980 when one firm purchased a small amount of DTP vaccine from another. This vaccine was purchased for \$1.70 per 15 dose vial and then resold in the retail market to private practitioners at \$4.44 per vial. The second sale occurred during the DTP crisis of 1984 and 1985. Based on public testimony by Robert Johnson of Lederla Laboratories, Lederle purchased more than 10 million doses of DTP from Wyeth Laboratories at 20 cents per dose and redistributed it at a price of about \$2.80 per dose.

Total sales of vaccines are reported in two ways: gross sales and net sales, where net sales are equal to gross sales less unused

product returned to the manufacturer. Table 10 shows aggregate gross and net sales volume of the survey respondents by type of vaccine for years 1981 through 1984.

Table 10. Gross and Net Sales of Vaccines by Survey Respondents, 1981 - 1984.

-	Gross males (in millions)					
Year	Childhood vaccines (DTP, MMR and polic)	Other vaccines	Total			
1981	\$ 68.7	\$47.2	3115.8			
1982	79-7	61.2	140.9			
1983	105.1	68.3	173.4			
1984	132.3	73.2	205.5			

Net sales (in millions)

Year	(DTP, MMR and polio)	Other vaccines	Total
1981	\$ 64.0	\$39.9	\$103.9
1982	73.9	52.8	126.7
1983	99.1	57.8	156.9
1984	126.0	64.5	190.5

In 1984, the gross sales of vaccine products by the survey respondents was \$205 million. Net sales in 1984 were 93 percent of gross sales, or \$190 million. Between 1981 and 1984, gross sales of vaccine products increased by 77.5 percent (from \$115 million to \$205 million). Net sales increased by 83.3 percent.

In 1984, childhood vaccines (DTF, HMR and polio) accounted for 64.4 percent of gross vaccine sales (\$132.3 million) and 65.1 percent of net sales (\$126.0 million). Gross sales of childhood vaccines increased by 92.6 percent between 1981 to 1984, accounting for an increase of \$63.6 million in sales revenues. This increase in revenues is largely due to increases in the prices of these products since demand for childhood vaccines has remained relatively constant over this period.

In response to a question about the relative profitability of vaccine products as compared to other products, the five commercial

respondents noted that their vaccine product lines were about as profitable as the other products sold by these corporations, but somewhat less profitable than other pharmaceutical products. One respondent qualified its response by noting that "our pediatric vaccines have become more profitable in recent years . . . " Other respondents noted that the true profitability of their vaccine product lines could not be determined given the potential liability in lawsuits related to these products.

5. Stockpiles and Inventories of Vaccines

Six of seven survey respondents maintain inventories of finished products. In some cases, vaccine inventories are large enough to supply national domand for several months. In addition, three of the respondents maintained stockpiles of vaccine under contract to the CDC, at the time the survey was conducted. Since March 1985, a fourth company has also entered into a contract with CDC to stockpile vaccine.

Chairman RANGEL. Thank you very much.

Mr. Dorgan.

Mr. Dorgan. Mr. Chairman, I would just like to ask Jeff if he might recount for us your apparently personal experience in seek-

ing redress for the injury done to a family member.

Mr. Schwarz. It is a little bit touchy and personal and I would prefer not to go into great detail about my situation other than to say we filed an initial suit at the time and eventually withdrew the suit even though we thought we had a good claim, because of a variety of personal stressful family circumstances. I would be willing to explain our personal situation in private. The more important point is about what the group's experience is. The group's experience is that our parents have had no alternative but to go to court. So parents who are faced with lifetime care for their children, long after the parents are gone, how are they going to pay for that? They have no choice but to sue and in many instances those suits have been brought.

Now, I think Mr. Waxman did inadvertantly leave one misleading impression. There is a good report done by his staff that says there are a few cases that have been won, a few cases that have been lost; there are a large number of cases that have been settled, et cetera, but the point is so far the awards and settlements are not that big, not as big as the administration and vaccine makers would lead you to believe. We urge you to look at the Health Subcommittee's staff report. The point is some parents have said if they had a choice they would go to a no-fault compensation system. If parents knew it was going to be fair, if they knew it was going to be quick and if they knew it could take care of their children, many parents would be willing to sacrifice the potential for a big

score to get their children taken care of.

Mr. Dorgan. I didn't mean to leave the impression I wanted to walk you through a personal discussion about your circumstance. I was trying to understand the typical circumstances some find themselves in when they have this sort of injury. My guess is that each family is left pretty much to fend for itself. Do you get a lawyer? How did you go through the time-consuming task of litigation and face an uncertain outcome at the end?

I guess I wanted you to discuss that just generally from your ex-

perience.

Mr. Schwarz. I appreciate the question because it is important to understand who these families are prototypically. They involve children who in the long-term problem cases, involve children who have seizure disorders, who are multiple handicapped, who require round-the-clock care, and who have extraordinary expenses of all sorts. In order to sort out all these kinds of problems, parents have to see a number of doctors, therapists, educational specialists, and then lawyers to try to figure out what can be done for these kids. Some of them get good lawyers; some of them get not so good lawyers. Some of them win. Some of them have cases that they have taken to a lawyer but the lawyer has not filed for years. Some of

^{*}See report by Subcommittee on Health and the Environment, Committee on Energy and Commerce, U.S. House of Representatives, "Childhood Immunizations," Committee Print 99-I.I., 99th Cong., 2d Sess. (Sept. 1986), pp. 85-92.

them have been tried promptly. There is a range of experience and it is frustrating to not be able to be sure that you can provide adequately for your child.

Mr. Dorgan. We talk about kids and children. This is not exclusively kids and children, is it? I know of a case of someone in their

50's who took polio vaccine.

Mr. Schwartz. Contact polio is the situation in which childhood vaccines can transmit impacts to the people who are surrounding

them. The law covers those cases, by the way.

The law covers those cases and they well should be covered. But I urge the committee not to assume that we are talking about a one in a million shot. The commonly cited statistics here just really don't bear scrutiny. We can go into greater detail with you and your staff to show you why not, but there is a recent medical journal article that says we have not been looking for the side effects of these vaccines. Once doctors started looking for the side effects of the polio vaccines, they found one in 37,500 cases of severe neurological impact. That is a whole big different magnitude of order than one in 1 million. We think the same is true with respect to these other vaccines. We understand that makes the problem worse from your standpoint but we are trying to be honest with you here and we are trying to get honest recognition of the size of this problem. It is not a minuscule problem.

Mr. Dorgan. It makes it worse especially with respect to the ret-

roactive cap that was placed on the legislation that we passed.

Mr. Schwarz. The retroactive cap works two ways. I honestly believe there are many more kids out there that have been injured or killed by childhood vaccines than that retroactive cap allows for. On the other hand, the ability to document that those injuries vaccine related when they occurred 20 years ago is very difficult because there was not sensitivity then to the dangerous side effects of these vaccines. Doctors weren't recording these reactions. Parents were not sensitized to them years ago. As a practical matter, I think relatively fewer claims for the old cases will be filed than are really justified, because causation will be very difficult to prove with inadequate records.

Mr. Dorgan, Thank you very much.

Mrs. Kennelly. Your excellent testimony gives us broad latitude. You are more or less saying to us find an answer and we will help you find an answer. I wonder if you would address the present piece of legislation that has been signed, was passed by us and signed. Are there any particular parts that you could say right now, leave those in and go on from there. Are there any parts more important than other parts? We are really thrashing around on this thing.

Mr. Schwartz. Our general message to you is unless you enjoy pain and suffering yourself don't try to revisit the fight that has been going on for 5 years. In terms of our interest we feel most strongly that any restriction on the parents' right to sue to protect their children is a mistake. It is a mistake because that is a right that is necessary to assure adequate care by the manufacturers and

^{*} See Gaebier, et al., "Neurological Complications in Oral Polic Vaccine Recipients," Journal of Pediatrics Gune 1986, pp. 878-881.

doctors. That is a right that is necessary to assure that the compensation system really provides adequately for the children's needs.

So we think preservation of that right is important.

There are a few minor things we would like to see changed. We don't understand a compensation system that does not have an effective deadline for decisionmaking. There needs to be an up or down decision within a reasonable time so a parent can say, okay, let's take the award or let's go to court. The compensation process must not drag on for years while the children are left uncared for.

We also feel strongly that the decisionmaking about an individual case, whether that case fits within the table or otherwise deserves compensation, should be made by a politically independent entity. That is why we supported the special master/magistrate concept in the Federal courts. We are very concerned that given HHS's historic hostility and denial of this problem, we are very concerned HHS will find a way not to see any of the cases that are really there if the compensation system is put under their charge.

We want the Federal judiciary that has political independence, using a special master or magistrate system, to expedite compensa-

tion decisions.

We try not to be dogmatic. There are a lot of things that could be changed in the context of an acceptable total program, but we strongly urge this subcommittee to focus on the funding questions and leave the other questions that we fought through so difficultly for the last 4 years to the resolution that has already been made by Congress. We did not support all parts of the law. We didn't like all parts of it. But we supported the package as a whole because we knew practically this was the best that could be done.

Mrs. Kennelly. So the bottom line is you want to leave the avenue of litigation open, at the same time provide a revenue source that is permanent and therefore the individual who has had

the very serious problem has a choice?

Mr. Schwarz. An incentive we think under the system to take compensation where compensation is adequate and reliable, but allow the parent to sue when there is a clear demonstration of wrongdoing, or otherwise when the parent is determined to go to court

When a doctor gives the shot four times even though there has been a serious reaction after the second shot, and the third and fourth shots leave the child permanently brain damaged, we ought not take away the right of the parent to sue that doctor, because that lawsuit not only provides for the child's needs but it sends a message to the rest of the doctors to administer this vaccine properly. The same goes for the drug companies. They should take care to manufacture their product properly and to make it as safe as possible.

Mrs. Kennelly. Thank you.

Chairman Ranger. Thank you very much. The committee welcomes the opportunity to work with you as we try to reach a conclusion to this bill. Thank you for the great work you have done.

The next panel is Lederle Laboratories, Bob Johnson, president, from New Jersey, Merck & Co., Mr. MacMaster, president, and Connaught Labs, Mr. Williams, executive vice president.