

December 18, 1990

INTRODUCED BY AUDREY GRUGER

PROPOSED NO. 91 - 28

MOTION NO. 8165

A MOTION authorizing the county executive to make a grant application for funds in the approximate amount of \$8,319 in 1991 to support development of data gathering and intervention responses related to drowning incidents and deaths in adolescents in King County.

WHEREAS, the Washington State Department of Health is authorized to make grants of funds from the Injury Prevention Program to support projects designed to reduce the incidence of injury to the general population, and

WHEREAS, research has shown that drowning within the adolescent age group is a serious public health and social problem within King County and,

WHEREAS, gaps exist in reporting of submersions and drownings within King County, and

WHEREAS, the public health program directed toward drowning prevention, particularly among adolescents would be enhanced through a grant by Department of Health funds;

NOW, THEREFORE, BE IT MOVED by the Council of King County:

A. The King County executive is hereby authorized to make application for funds in the amount of \$8,319 to the Washington State Department of Health to partially support the development of a drowning data gathering system and a drowning prevention program targeted toward King County adolescents.

B. The King County executive is hereby authorized to file and execute such contracts as are required by the grantor,

PASSED this 28th day of January, 19 91.

KING COUNTY COUNCIL
KING COUNTY, Washington

Low North
Chairman

ATTEST:

Gerald A. Peterson
Clerk of the Council



City of Seattle King County
Norman B. Rice, Mayor Tim Hill, Executive

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Seattle-King County Department of Public Health
Bud Nicola, M.D., M.H.S.A., Director

September 19, 1990

Ilene F. Kasten, Program Manager
Washington State Dying Prevention Program
Department of Health
Mail Stop LK-13
Olympia, WA 98504

Dear Ms. Kasten:

We are pleased to submit our application for an injury control mini-grant toward reduction of pediatric drowning, as described in the application.

There is no doubt that action in this area fully warrants our attention. In addition to the efforts of our environmental health professionals, we fully intent to provide as needed, in-kind services of personal health and health education staff in the drowning prevention and education program.

We are looking forward to participating in this important injury prevention effort. Should you require further information from us, please call Mr. Anthony Bossart at (206) 296-4784.

Sincerely,

Bud Nicola, M.D.
Director of Public Health

BN:tbt

Enclosures

/wpfiles

MINI-GRANT APPLICATION

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Name of Agency Seattle-King County Department of Public Health

Address 600 Prefontaine Building, Seattle, WA 98104

Phone Number (206) 296-4784

Contact Person Anthony J. Bossart

Type of project selected:

Child Pedestrian Safety

Bicycle Helmet Promotion

Drowning Prevention

Scald Burn Prevention

Other _____

Narrative:

A description of the information required for the project narrative is on pages 3 - 4 of the Request for Applications. The narrative does not need to be lengthy. Please attach the narrative, budget sheet and letters of commitment to this form.

Send applications to:

Ilene F. Kasten, Program Manager
Washington State Injury Prevention Program
Department of Health
Mail Stop LK-13
Olympia, Washington 98504

Name of Agency

INJURY PREVENTION COORDINATOR

Current job title of proposed coordinator, or background of staff person to be hired (e.g., Public Health Nurse, Health Educator, Sanitarian/Environmental Health Specialist)

Annual Salary & Benefits	\$ <u>37,814.00</u>
	X .2 (salary for .2 FTE)
Subtotal for Injury Prevention Coordinator	\$ <u>7,563</u>
Administrative Costs @ 10%	X .10
	\$ <u>756</u>
TOTAL MINI-GRANT	\$ <u>8,319</u>

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CHECKLIST

Completed applications include:

 X Mini-Grant Application Form

 X Budget Sheet

 X Project Narrative

 X Letters of Commitment

Among pediatric (0-19 years of age) victims of drownings and near drownings in King County, the highest incidence occurs in the 15-19 year age group (41) (43.6%). The highest levels of mortality occur predominantly in lakes and rivers. The 15-19 year age group also has the highest proportion of drownings in which blood alcohol levels were detected in the victims (25%).

TABLE 1. Submersion Incidents and Mortality, King County, Washington.*

Age Group (yr)	Numbers		Rate/100,000 Population/yr	
	Drowning	Near-drowning	Drowning	Near-drowning
<1	1	6	0.6	3.4
1-4	25	53	4.1	8.7
5-9	9	17	1.1	2.2
10-14	18	13	2.0	1.4
15-19	41	12	3.8	0.1
<1-19	94	101	2.6	2.8

* Based on 1980 U.S. Census data. Does not include four child abuse victims.

TABLE 2. Sex Distribution of Drownings and Near-Drownings by Age, King County, Washington.

(yr)	Male to Female Ratio			Case Fatality Rate (%)		
	No.	Incidence	Mortality	Male	Female	All
0-4	88	2.1	2.9	33	25	31
5-9	26	1.9	2.0	35	33	35
10-14	32	3.6	8.5	68	29	59
15-19	53	4.3	4.9	79	67	77
0-19	199	2.8	4.2	53	35	47

TABLE 3. Submersion Rates per 100,000 Population by Age and Site, King County, Washington.*

Age (yr)	Lake/River+		Pool		Bath	
	Incidence Rate (No.)	Mortality Rate (No.)	Incidence Rate (No.)	Mortality Rate (No.)	Incidence Rate (No.)	Mortality Rate (No.)
<1	0.6(1)	0(0)	0(0)	0.0(0)	2.9(5)	0.6(1)
1-4	3.8(23)	1.3(8)	6.1(37)	1.8(11)	1.8(11)	0.5(3)
5-9	1.8(14)	0.6(5)	1.3(10)	0.3(2)	0.1(1)	0.1(1)
10-14	2.20(20)	1.7(16)	1.1(10)	0.1(1)	0.1(1)	0.1(1)
15-19	3.7(40)	3.3(35)	0.8(9)	0.2(2)	0.3(3)	0.3(3)
0-19	2.7(98)	1.8(64)	1.9(66)	0.5(16)	0.6(21)	0.3(9)

Among all drownings, lake and river victims had the highest incidence, mortality, and case fatality rate.

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Drownings have decreased significantly since King County Board of Health Regulations for swimming pool safety became effective in 1982. The regulations imposed requirements for fencing, pool markings, supervision and safety equipment at regulated pools.

TABLE 4. Drownings in Life-Guarded King County Spas, Pools and Bathing Beaches.

Year	Number	Rate*
1975-1976	10	0.21
1977-1978	7	0.15
1979-1980	9	0.18
1981-1982	2	0.04
1983-1984	0	0.0
1985-1986	1	0.02

*Per 100,000 population

TABLE 5. Submersion Rate of Victims Less than 20 Years of Age at King County Pool Sites.

Pool Type	RATE/100,000 POPULATION (NUMBER)					p value	CHI2
	1974-75	1976-77	1978-79	1980-81	1982-83		
Public/Semi-Public	.86(13)	.56(8)	.35(5)	.56(8)	.14(2)	.06	3.64
Private	.20(3)	.35(5)	.42(6)	.21(3)	.34(5)	>.75	0.04
Total	1.06(16)	.92(13)	.78(11)	.77(11)	.48(7)		

The above data demonstrates a sharp contrast between regulated facility swimming and unregulated swimming settings.

While the incidence of drowning misadventure among 15-19 year olds is the highest among pediatrics, data of the contributing factors are not clear. Reversal in the numbers of 15-19 year old drownings is not likely without devoting study to the causes with the aim of remediation.

Therefore, using the resources afforded by the mini-grant, we propose to:

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- A. Accumulate new data and review existing data related to drowning and near drowning incidents in King County, emphasizing 15-19 year olds and applying the data to development of an intervention program. This phase will be six months and on-going.
- B. Develop age group and site specific intervention strategies, directed toward 15-19 year olds using unprotected lakes and rivers for recreational swimming and adventure settings.

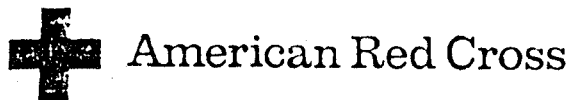
This project will be assigned to Mr. A.A. Gomez, Senior Environmental Health Specialist, who has twelve years experience in water safety, public health pool and spa sanitation, as well as research and publication in the field. In addition, Mr. Gomez has extensive association with persons involved in all aspects of recreational water sanitation and injury prevention. Mr. Gomez and Mr. Anthony Bossart, Chemical and Physical Hazards Program Supervisor, will attend the required training session in injury prevention.

Additional intra-departmental support will be provided by staff in the Environmental Health Division, Personal Health Services staff and Health education.

Commitment for assistance, consultation and participation have been received from the Seattle-King County Chapter, American Red Cross, and from Dr. Linda Quan, Chief, Emergency Services, Childrens Hospital and Medical Center.

The water sites toward which this project is directed are **8165**
located within the City of Seattle, various incorporated suburban
cities within King County and in the rural parts of King County.

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- TABLES No. 1-3: Quan, L., M.D., et al, (1989), Ten Year Study of Pediatric Near-Drowning and Drowning in King County, Washington: Lessons in Injury Prevention. Pediatrics 83:1095-1040.
- TABLES No. 4-5: Quan, L., M.D. and Gomez, A., Swimming Pool Safety: An Effective Submersion Prevention Program. Journal of Environmental Health (1990) Volume 52, Number 6.



Seattle-King County Chapter
 1900 25th Avenue South
 Seattle, Washington 98144-1708
 (206) 325-2345
 FAX (206) 325-8211
 TDD (206) 322-2184

August 31, 1990

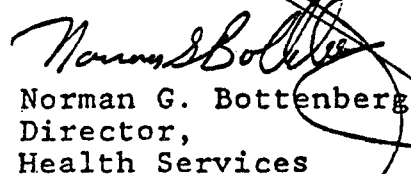
Dear Mr. Bossart:

I am very pleased to hear of your departments application for grant funding to help coordinated a local effort to reduce the number of children who drown in our community.

As you know the American Red Cross has been active in the area of water safety for many years and has a continued interest in the reduction in the number of lives lost by drowning.

I have had many occasions to work with the Seattle-King County Health Department in past years. I fully support your application for this grant and pledge my personal, and agency support for this important program.

Sincerely,



Norman G. Bottenberg
 Director,
 Health Services

Mr. Anthony Bossart
 Environmental Health Specialist
 Seattle-King County Health Department
 201 Smith Tower
 Seattle, WA 98104

The programs of the American Red Cross are made possible by the voluntary services and financial support of the American people.



In Partnership With United Way

Al Schultz, Chapter Chairman
 Charles E. Riley, Vice Chairman Joe Jatter, Vice Chairman
 Alice Y. Thomas, Secretary Vic Knutzen, Treasurer
 Stanley D. Fuqua, Chairman of Volunteers
 David W. Siebert, Chapter Manager

CHILDREN'S HOSPITAL
AND MEDICAL CENTER
4800 Sand Point Way NE P.O. Box C5371
Seattle, WA 98105 Phone: 526-2000



UNIVERSITY OF WASHINGTON
School of Medicine
Department of Pediatrics RD-20
Seattle, WA 98195 Phone: 543-3180

August 30, 1990

Anthony Bossart
EHS Supervisor
201 Smith Tower
Seattle, Washington 98104

Dear Mr. Bossart:

I am writing to support the King County Department of Public Health's (KCDPH) application for funding for drowning prevention. The KCDPH has had a longstanding interest and clairvoyant approach to the submersion problem. The program that they have established has been highly effective, unique, and a model for other communities. This has developed because the highest levels of commitment and professionalism exist within the department. It has been an honor to work with them to help evaluate their program. I am committed to ongoing evaluation of, support and collaboration with the KCDPH's drowning prevention projects.

Sincerely,

A handwritten signature in cursive script that reads "Linda Quan".

Linda Quan, M.D.
Chief, Emergency Services
Children's Hospital and Medical Center

Assistant Professor
University of Washington
School of Medicine