

:

:

:

arabmoha@tums.ac.ir

:

:

:

/ / :

// :

:

:

SPSS

% / % / % /

:

( $p = /$  ).

( $p = /$  )

:

:

.(Wise 2007)

(Natural )

(Hybrid)

(Man-made)

.(Shaluf 2007 a,b)

(UNDP 1997 )

Mahoney and Reutershan 1987; )  
(Building Seismic Safety Council 1990

(Pourmalek et al. 2005)

China Disaster )  
(management programmes 2006

(Sztajnkrzyer 2005)

Gross National Product ] %  
[(GNP)  
(Ishak et al. 2004)

( )

(Nateghi 2000)

Pourmalek et al. )  
(2005

Nateghi 2000; )

(Pourmalek et al. 2005

UNDP 1997; Mahoney and )  
Reutershan 1987; Building Seismic Safety  
(Council 1990

(AMA 2005; Mehta 2006 )

(Nateghi 2000)

(AMA 2005 )

Joint Commission Perspectives 2001; Halpern )

(and Chaffee 2005

(Gupta and Kant 2004 )

(Gupta and Kant 2004)

Bulut )

( )

(et al. 2005

Whitney etal. 2001; Giacopetti )

)

(1999; Howe 1998

(

Krajewski etal. )

(2005

[ ]

[ ]

( )

(CEMSA 2006 )

Whitney etal. )

(2001; Giacopetti 1999; Howe 1998

Bulut )

( et al. 2005; Emami et al. 2005

(Anderson 2000; Katrina 2003 )

Hospital Emergency Incident )

( Command System

.( )

»

«

Jagminas and bubly 2003; JCAHO 2004; )

.(OSHA 2007

American ]

.( )

[College of Emergency physicians(ACEP)

.(ACEP 2003)

Peltz )

.(et al. 2006; Mehta 2006; McGlown 2004

.(Gupta and Kant 2004 )

Katrina )

.(2003; Vinson 2007

UNDP )

.(1992; Gupta and Kant 2004

»

«

.(Emami et al. 2005)

Richard and )

%

(Catharine 2005

:

$$n = \frac{Z^2(1-\alpha/2) \times P(1-P)}{d^2} = \frac{(1.96)^2 \times 0.75 \times 0.25}{0.04} = 18$$

)

(Erich 2006)

(

)

( )

(

)

(

:

)

( ( )

SPSS 11.5

( )

( )

(Fisher Exact Test)

)

) (

( )

( )

( )

( )

:

(

/

/

/

/

/

/

( )

/

/

/

/

( )

/

/

/

/

/

/

/

:

/

/

:

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/

/ :

/

/

( ).

/

$$\frac{1}{p} \left( \frac{1}{p} \right) = \frac{1}{p^2}$$

$$\frac{1}{p} \left( \frac{1}{p} \right) = \frac{1}{p^2}$$

$$\frac{1}{p} \left( \frac{1}{p} \right) = \frac{1}{p^2}$$

$$p = 1 \quad p = 1 \quad p = 1$$

$$.(p = 1 \quad p = 1 \quad p = 1$$

$$.( \quad )(p = 1 \quad )$$

$$p = 1 \quad p = 1 \quad ) .$$

$$.(p = 1$$

$$.( \quad )(p = 1 \quad ) .$$

$$(p = 1 \quad ) .$$

$$( \quad )$$

$$.( \quad )(p = 1 \quad )$$

$$.( \quad )(p = 1 \quad ) .$$

$$p = 1 \quad p = 1 \quad ) .$$

$$.(p = 1 \quad p = 1$$

$$( \quad )$$

$$( \quad )(p = 1 \quad ) .$$



.( )

.( )

.( )

/

/

( % / )

.( )

/

.( )

/

( )

.( )

.( )

( % / )

.( )

.( )

.( )

/

/  
( )

( )

(Murphy 2004 )

/

(Emergency Response Plan )

- /

Richard and )

(Catharine 2005

Jacquo )

(2006

(Jacquo 2006)

(Richard and Catharine 2005)

(Mass Casualty Incident)

(Kaji 2004)

United State General )

(Accounting Office

( )

(USGAO 2003)

l...

---

.( )

(p = / )

.( )

(p = / ) .

(p = / )

(p = / )

/

(p = / )

.( )

)

.(Schultz et al. 2003)

(

( $p = /$  ).

Nelson et al. 2005; )

Johns Hopkins University Evidence based  
(2004

(

)

)

(

"

"

/

/

(Bartley et al. 2006)

/...

---



---



---



---



---

/	/	/
/	/	/
/	/	/
/	/	/
/	/	/
/	/	/
/	/	/
/	/	/

---

P- value    Fisher test    \_\_\_\_\_

---

/    /    \_\_\_\_\_ /    /    /

---

/    /

---

/    /    \_\_\_\_\_ /    /    /

---

/    /    \_\_\_\_\_ /    /    /

---

---

P- value	Fisher test			
/	/	/	/	/
		/	/	
/	/			
		/	/	
/	/	/	/	/
		/	/	/

---

.( )...

- <http://www.fema.gov>. [cited 23 April 2006].
- Bulut, M., Fedakar R., Akkose, S., Akgoz, S., Ozguc. H. and Tokyay, R., 2005. Medical Experience of A University Hospital in Turkey After the 1999 Marmara Earthquake. *Emerg Med J*, [online], **22**, PP:494–498. Available from <http://www.emj.bmj.com> [cited 18 May 2008].
- California Emergency Medical Services Authority (CEMSA)., 2006. *Hospital Incident Command System Guidebook*. 4<sup>th</sup> Ed., [online] PP: 1-5. Available from: [http://www.emsa.ca.gov/dms2/heics\\_main.asp](http://www.emsa.ca.gov/dms2/heics_main.asp) [cited 24 May 2007]
- China Disaster management programmes, 2006. *Disaster management programmes*. [online] Available from: <http://www.undp.org/bcpr/disred/documents/publications/corporatereport/asia/china.pdf> [cited 14 Jul 2006].
- Emami, M.J., Tavakoli, A.R., Alemzadeh, H., Abdinejad, F., Shahcheraghi, G., Erfani, M.A., Mozafarian, K. Solooki, S., Rezazadeh, S., Ensafdarán, A., Nouraié, H., Jaberí, F.M. and Sharifian, M., 2005. Strategies in Evaluation and Management of Bam Earthquake Victims. *Prehospital and Disaster Medicine*, **20**(5), pp: 327-330.
- Erich, L., 2006. *Nonparametrics: Statistical Methods Based on Ranks*, first Ed..
- Giacopetti, R.J., 1999. *Year 2000 Implications for Philadelphia Hospitals, Health Systems and Provider Organizations*. Delaware Valey Healthcare Council. [online]. Available from: <http://www.dvhc.org/rr/Y2K.htm> [cited 25 oct 2006].
- Gupta, Sh. and Kant, S., 2004. *Emergency Medical Services and Disaster Management*. 2<sup>nd</sup> ed., Gaypee Inc, New Delhi.
- Halpern, JS., Chaffee, MW., 2005. *Disaster Management and Response, An Issue of Nursing Clinics*. London: Elsevier.
- Howe, A., 1998. *Millennium Bug Puts Hospitals in Intensive Care*. [online]. Available from:
- American College of Emergency Physicians (ACEP)., 2003 *Hospital Disaster Privileging*. [online]. Available from: <http://www.acep.org/webportal/PracticeResources/PolicyStatements/hospitalDisasterPrivileging.htm> [cited 20 Jul 2006]
- American Medical Association (AMA)., 2005. *Management of Public Health Emergencies*, first Ed. [online]. Available from: [http://www.ama.org/publications/Management\\_of\\_Public\\_Health\\_Emergencies](http://www.ama.org/publications/Management_of_Public_Health_Emergencies) [cited 10 June 2008]
- Anderson, BL., 2000. Disaster Administration in the Third word. *International development review, 1<sup>st</sup>, lipincoot*, pp: 78.
- Bartley, BH., Stella, JB. and Walsh, LD., 2006. What a Disaster?! Assessing Utility of Simulated Disaster Exercise and Associated Educational Process. *Prehosp Disast Med*, **21**(4), pp: 249–255.
- Building Seismic Safety Council., 1990. *Seismic Considerations: Health care facilities*, Washington DC: *Federal Emergency Management Agency, FEMA 150*. [online]. Available from:

- disaster medical care systems. *Ann Emerg Med*; **16**, pp:1085–91.
- McGlown KJ., 2004. *Terrorism and Disaster Management: Preparing Healthcare Leaders for the New Reality*. Chicago: Health Administration Press.
- Mehta, s., 2006. Disaster and Mass Casualty Management in a Hospital: How Well Are We Prepared. *Journal of Postgraduate Medicine*, **52**(2), pp: 89-90.
- Murphy, K.J., 2004. After 9/11: Priority Focus Area for Bioterrorism Preparedness in Hospitals. *Journal of Health Care Management*, **4**(4), pp: 227-235.
- Nateghi, A., 2000. Disaster Mitigation Strategies in Tehran, Iran. *Disaster Prevention and Management J.*, **9**(3), pp: 205-212.
- Nelson, D., Dierbery, K. and Scepanolic, M., 2005. Integrating Quantities Methodological for the Assessment of Health Care System: Emergency Medicine in Post Conflict Serbia. *Biomedical Center*, **5**(14), pp: 17- 24.
- Occupational Safety and Health Administration(OSHA)., 2007. *Best Practices for Hospital-Based First Receivers of Victims from Mass Casualty Incidents Involving the Release of Hazardous Substances*. [online]. Available from: [http://www.osha.gov/dts/osta.bestpractices/html/hospital\\_firstreceivers.html](http://www.osha.gov/dts/osta.bestpractices/html/hospital_firstreceivers.html) [cited 21 August 2007].
- Peltz, M.R., Ashkenazi, C.I., Schwartz, D., Schwartz, D., Shushan, L.O., Nakash, C.G., Leiba, M.A., Yeheskel Levi, B.G., Avishay Goldberg, C., Bar-Dayana, C.Y., 2005. Disaster Health Care Management and Crisis Intervention Leadership in Thailand: Lessons Learned from the 2004 Tsunami Disaster. *Prehosp Disast Med.*, **21**(5), pp: 299–302.
- Pourmalek, F. Ardalan, A., Russel, M., . Mohammadi, H., 2005. *Emergency Country Profile: Islamic Republic of Iran, TUMS (SPHIPHR) for MOHME (SHRMD) with support from WHO Country Office in Iran*. [online]. Available from: [http://www.infosec.com/y2k/y2k\\_062698b\\_j.html-ssi](http://www.infosec.com/y2k/y2k_062698b_j.html-ssi) [cited 25 oct 2006].
- Ishak, A. Aziz, A. Mohamed, N., 2004. Management Plan for the State of Penang. *NCD Malaysia*, **3**(2), pp.?.
- Jacquo, V. R., 2006. The Status of The Hospital Disaster Plan in The Netherlands. *International Journal of Disaster Medicine*, **3**(1), pp: 28 – 31.
- Jagminas, L. and Bubly, G., 2003. The Hospital Emergency Incident Command System: Are You Ready?. *Med Health RI*, **86**(7), pp: 193-4.
- Johns Hopkins University Evidence-based Practice Center and The Johns Hopkins University Bloomberg School of Public Health., 2004. *Training of Hospital Staff to Respond to a Mass Casualty Incident*. [online]. Available from: [www.ahrq.gov](http://www.ahrq.gov) [cited 5 oct 2007].
- Joint Commission on Accreditation of Healthcare Organizations(JCAHO)., 2007. Revisions to Emergency Management Standards for Critical Access Hospitals, Hospitals, and Long term Care. *Jt Comm Perspect*, **27**, pp: 3-10.
- Joint Commission Perspectives., 2001. A Summary of the New Standards: *Discussion of the Underlying Philosophy*, **21**(12).
- Kaji, A.H., 2004. *Hospital Disaster Preparedness in Los Angeles Country*. [online]. Available from: [http://www.emsa.ca.gov/dms2/heics\\_main.asp](http://www.emsa.ca.gov/dms2/heics_main.asp) [cited 14 May 2007].
- Katrina, B. 2003. *Evaluation of Hospital disaster Drill*. [online]. Available from: <http://www.ahrq.gov/research> [cited 14 Jun 2008.].
- Krajewski, MJ., Sztajnkrzyer, M. and Baez, AA., 2005. Hospital Disaster Preparedness in the United States: New issues, New Challenges. *The internet journal of Rescue and Disaster Medicine*, **4**(2), pp:22-25.
- Mahoney, LE. and Reutershan, TP., 1987. Catastrophic disasters and the design of



- UNDP Disaster Management Training Programme., 1997. Introduction to Hazards, 3th Ed.
- United State General Accounting Office (USGAO), 2003. *Hospital Preparedness: Most Urban Hospitals Have Emergency Plan but Lack Certain Capacities for Bioterrorism Response. Report to Congressional Committee.*[online]. Available from: [www.gao.gov/cgi-bin/getrpt?GAO-03-924](http://www.gao.gov/cgi-bin/getrpt?GAO-03-924) [cited 9 May 2008].
- Vinson, E., 2007. Managing Bioterrorism Mass Casualties in an Emergency Department: Lessons Learned From a Rural Community Hospital Disaster Drill. *Disaster Manage Response*, **5**, pp: 18-21.
- Whitney, DJ., Dickerson, A., Lindell, MK., 2001. Nonstructural Seismic Preparedness of Southern California Hospitals. *Earthquake Spectra*, **17**(1), pp: 153-172.
- Wise, Gi., 2007. Preparing for Disaster: A Way of Developing Community Relationships. *Disaster Manage Response J.*, **5**, pp:14-7.
- <http://www.undp.org/bcpr/disred/document/s/regions/europe> [cited 5 March 2007].
- Richard, R. and Catharine W., 2005. Bioterrorism and Mass Casualty Preparedness in Hospitals: United States 2003. Centers for Disease Control and Prevention.
- Schultz, C., Koenig, K., Lewis, R., 2003. Implication of Hospital Evacuation After The Northridge. California Earthquake; *NewEngland Journal of Medicine*, **348**(14), pp:1349-55.
- Shaluf, I.M.,a 2007. An overview on disasters. *Disaster Prevention and Management*. **16**(5), pp: 687-703.
- Shaluf, I.M.,b 2007. Disaster types. *Disaster Prevention and Management*, **16**(5), pp: 704-717.
- Sztajnkrzyer, MD., 2005. Hospital Preparedness: A Public Health Mandate remains Under-Appreciated. *Rescue and Disaster Medicine J.*, **4**(2), pp: 22-25.
- UNDP Disaster Management Training Programme., 1992. An Overview of Disaster Management. 2<sup>nd</sup> Ed..