

Management of Adult Post-Traumatic Hydrocephalus Ihab Zidan MD PhD

Introduction

Post-traumatic hydrocephalus (PTH) is considered as one of the complications that can affect the prognosis after traumatic brain injury with controversy about the best way of management. The goal of this work is to study the management and prognosis of adult patients with PTH.

Methods

This study was performed in Alexandria university hospital and included all adult patients who were admitted at the emergency department and developed PTH from January 2012 to December 2014. The diagnosis of PTH was based on both clinical and radiological criteria. The Glasgow Coma Scale (GCS) was used for initial assessment as well as for monitoring the prognosis.

	Results	Learn
ł)	In the present study, Twenty five	to und
	patients presented with	manag
	hydrocephalus following head injury.	hydrod
y	There were 18 (72%) males and 7	
y	(28%) women, their age ranged from	Refere
	18 to 73 years (mean age; 41	
	years). The onset of hydrocephalus	
1	was immediate after trauma in 10	
	(40%) cases, whereas a delayed	
	onset was observed in 15 (60%)	
	cases. Of the 25 patients with PTH	
	in this study, 8 patients were treated	
	with an external ventricular drain, 12	
;	patients underwent	
	ventriculoperitoneal shunt and 5	
	patients were treated with	
	endoscopic third ventriculostomy	
	(ETV). Long-term improvement was	
	observed in 13% of patients treated	
	with external ventricular drain, 50%	
	of patients treated with shunts and	
	40% of patients treated with ETV.	
	Conclusions	
	PTH can lead to significant morbidity	
	and mortality. Still	
	ventriculoperitoneal shunts remain	
	the most appropriate way of	
	management however endoscopic	
	third ventriculostomy can be	
	beneficial in some conditions. The	
	final outcome is related mainly to the	
	initial GCS score regardless the way	

of management

Learning Objectives

to understand the different ways of management of post traumatic hydrocephalus

References