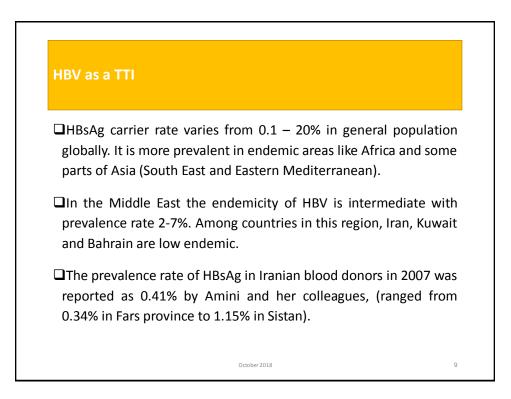
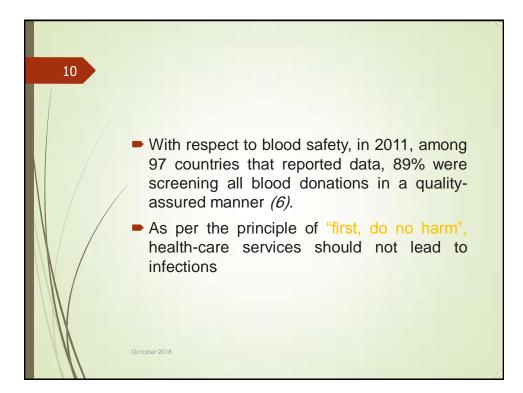
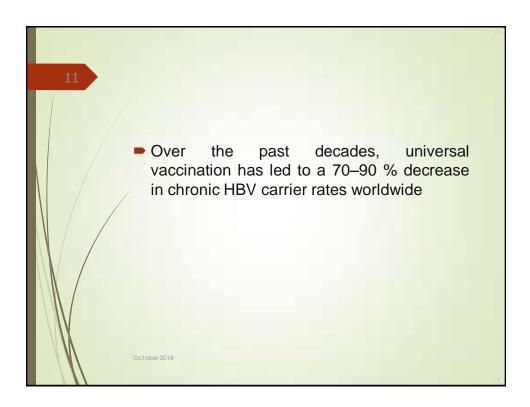


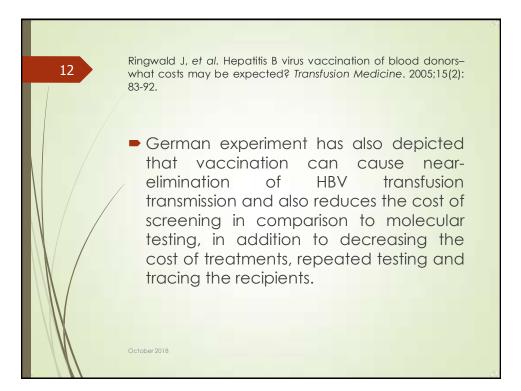
Target areas				Baseline 2015	2020 target	2030 target
Service coverage	Prevention	O Three-dose (coverage %)	hepatitis B vaccine for infants	82%	90%	90%
		of HBV: hepatil	of mother-to-child transmission tis B birth-dose vaccination or les (coverage %)	38%	50%	90%
		Blood and injection	Blood safety: donations screened with quality assurance	89%	95%	100%
		safety (coverage %)	Injection safety: use of engineered devices	5%	50%	90%
		set distributed	tion (sterile syringe/needle per person per year for ect drugs (PWID])	20	200	300
	Ireatment	5a. Diagnosis (	of HBV and HCV (coverage %)	<5%	30%	90%
		5b. Treatment	of HBV and HCV (coverage %)	<1%	5 million (HBV) 3 million (HCV)	80% eligible treated
			October 2018		100000	7

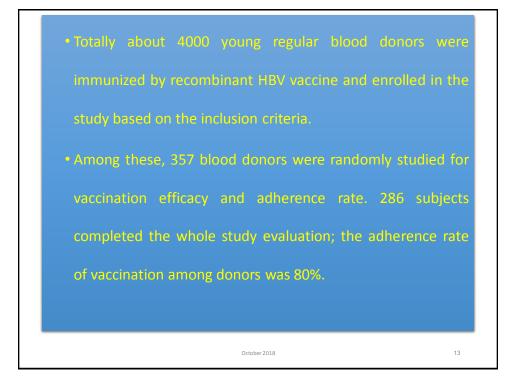
Reaching these five service coverage targets by 2030 would reduce the incidence of chronic infections by 90% and mortality by 65% (as compared to 2015 levels), which would eliminate hepatitis B and C as public health threats

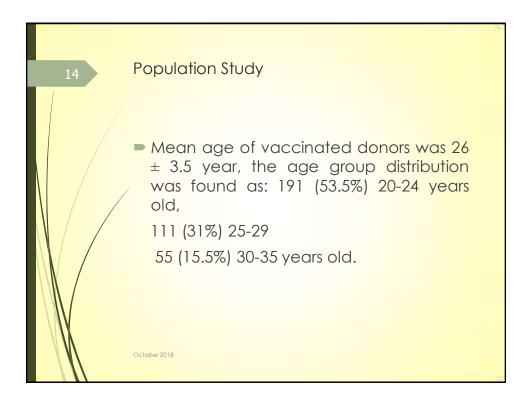


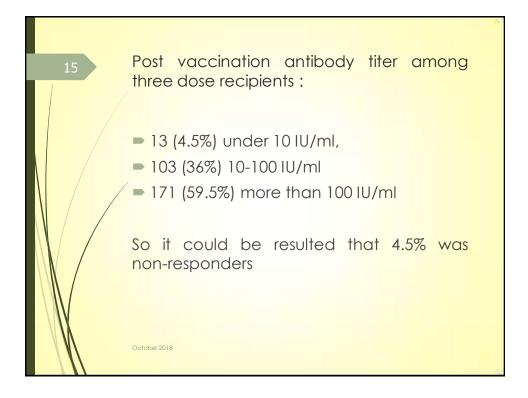


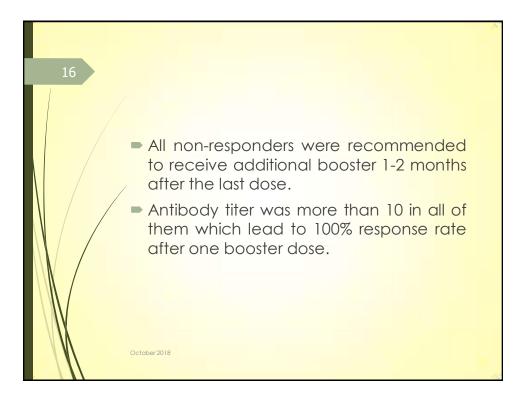


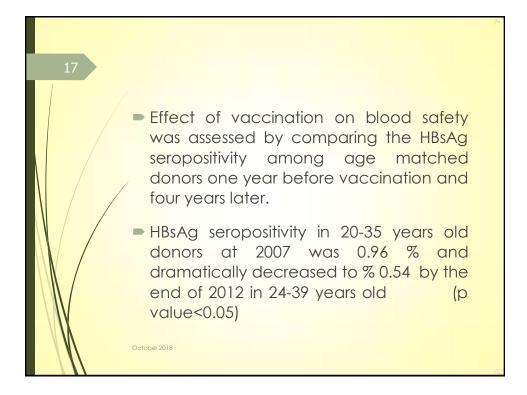












18			Ag posit during 6		e among	Sistan 8	& Baluchistan
	Year %HBsAg positive donor	2007 0.96%	2008	2009 0.78%	2010 0.66%	2011 0.65%	2012 0.54%
	Octo	Der 2018					

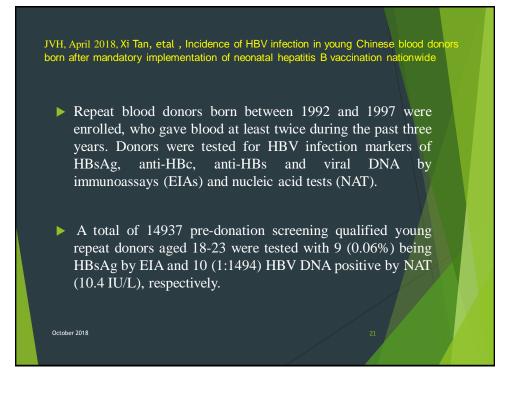
Zhen Wang,. Prevalence of hepatitis B surface antigen (HBsAg) in a blood donor population born prior to and after implementation of universal HBV vaccination in Shenzhen, China, BMC Infectious Diseases (2016) 16:498
Young blood donors born after implementation of universal HBV vaccination of universal HBV vaccination in China presented higher prevalence of HBsAg but lower incidence

- of HBsAg seroconversion than older, presumed unvaccinated donors.
- HBV vaccine boosting for adolescents at 15–17 years old prior to reaching blood donor age might help improve blood safety

October 2018

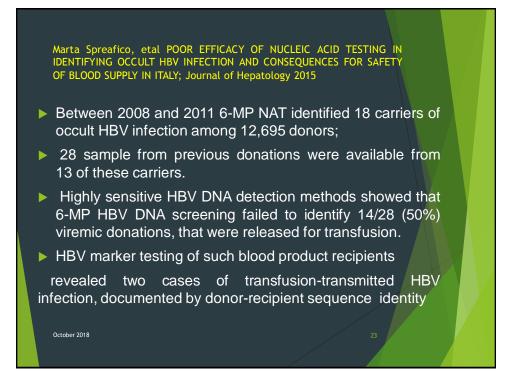
Wang et al.	BMC Infect	ious Diseases	(2016	) 16:498
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Age year	Bom <1992		Born≥1992		Overall		P value
	HBsAg+/total	%	HBsAg+/total	%	HBsAg+/total	*1	inter-group
18	152/4600	330	162/5151	3.15	314/9751	322	0.656
19	373/10,158	367	280/8212	3.41	653/18,370	355	0.340
20	545/14,797	368	253/6029	4.20	798/20,826	3,83	0.080
21	612/17,982	3.40	191/3883	4.98	803/21,815	3.68	0.000
22	692/20,146	343	99/2097	472	791/22,243	3.56	0.002
All ages	2374/67,683	351	985/25322	3.89	3359/93,005	3,61	0.005

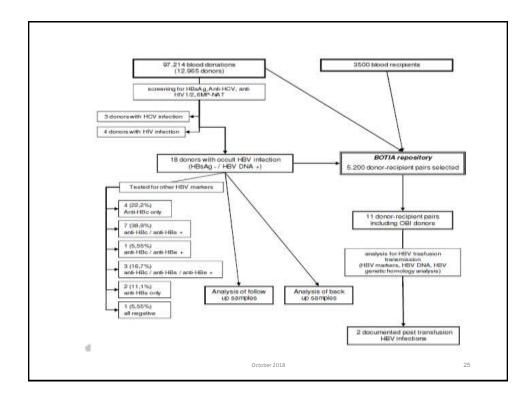


- ▶ HBV DNA was further detected in 1:192 (9/1732) anti-HBc+ repeat donors with NAT (3.4 IU/L). Mostly was OBI cases.
- Of 14,937 repeat donors, 20.9% were anti-HBc+ positive, while approximately 50% of 12,024 repeat donors were anti-HBs negative or had levels <100 IU/L.</p>
- infection in repeat donors was approximately 1:18.5 person-years (1.1%/yr) but significantly less frequent in donors with confirmed HBV vaccination (2.4%-3.3%) than those unsure of vaccination status (10.5%; P=0.0023).

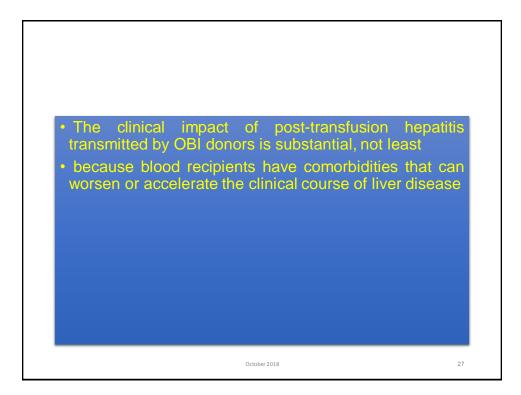
October 2018

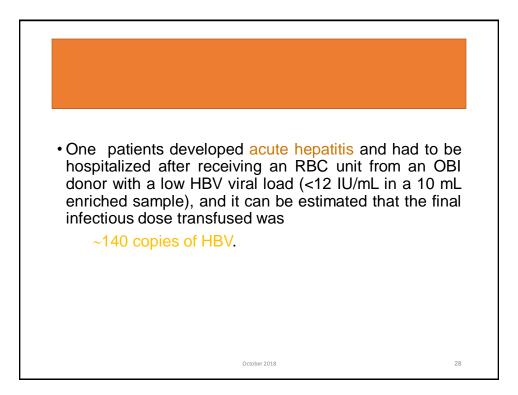


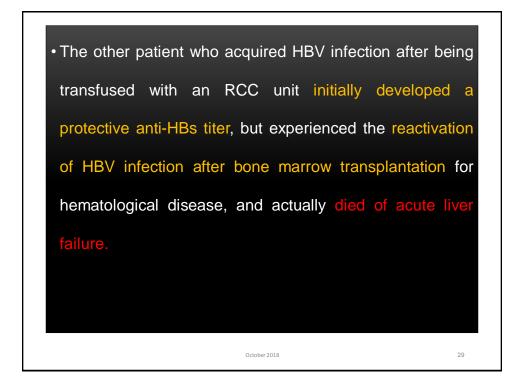
	Donation	HBsAg	Anti-HBs	Anti-HBc	Transfused blood
Donor	date	(S/Co)	(mIU/mL)	(S/Co)	component
	unc	[0.0-0.03]	[>10]	[0-0.9]	
Donor 1	8/1/2009	NEG	POS (559.9)	POS (2.81)	RCC
Xonor 2	13/1/2009	NEG	NEG (8.6)	POS (8.51)	PC
Jonor 3	13/1/2009	NEG	POS (29.9)	POS (9,96)	PC
Xonor 4	27/1/2009	NEG	POS (212.9)	POS (10.12)	PC
Jonor 5	19/2/2009	NEG	NEG	POS (1.30)	PC
Jonor 6	13/3/2009	NEG	POS (32,2)	POS (10.55)	RCC

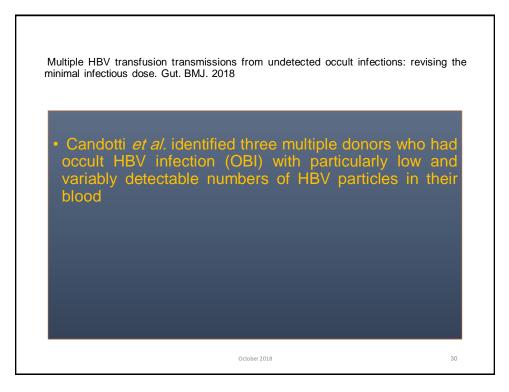


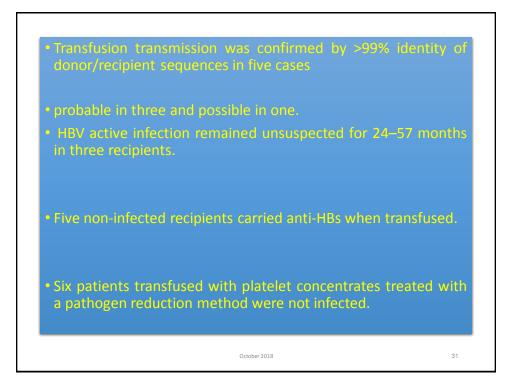
	Roche	Roche	Roche qPCR on	Roche qPCR on	In-house qPCR on
BI code	MP-NAT	ID-NAT	neat samples	enriched samples	enriched samples
OBI 1	Pos	Pos	Neg	Pos	Pos
OBI 2	Pos	Pos	<20 IU/mL	Pos	Pos
OBI 3	Pos	Pos	<20 IU/mL	Pos	Pos
OBI 4	Pos	Pos	<20 IU/mL	Pos	Pos
OBI 5	Pos	Pos	52 IU/mL	Pos	Pos
OBI 6	Pos	Pos	<20 IU/mL	Pos	Pos
OBI 7	Pos	Pos	<20 IU/mL	Pos	Neg
OBI 8	Pos	Pos	Neg	Pos	Pos
OBI 9	Pos	Pos	Neg	Pos	Pos
OBI 10	Pos	Pos	22	Pos	Pos
OBI 11	Pos	Pos	Neg	Pos	Pos
OBI 12	Pos	Pos	Neg	Neg	Pos
OBI 13	Pos	Pos	Neg	Neg	Pos
OBI 14	Pos	Pos	<20 IU/mL	Pos	Pos
DBI 15	Pos	Pos	<20 IU/mL	Pos	Pos
OBI 16	Pos	Pos	Neg	Neg	Pos
OBI 17	Pos	Pos	<20 IU/mL	Pos	Pos
OBI 18	Pos	Neg	Neg	Pos	Pos
ositive	18/18 - 100%	17/18 - 94%	10/18 - 56%	15/18 - 83%	17/18 - 94%
amples	10/10 = 100%	1//10 - 94%	10/10 = 56%	10/10 = 83%	1//10 = 94%

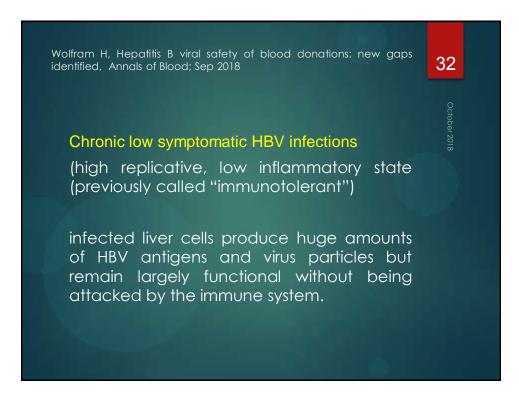


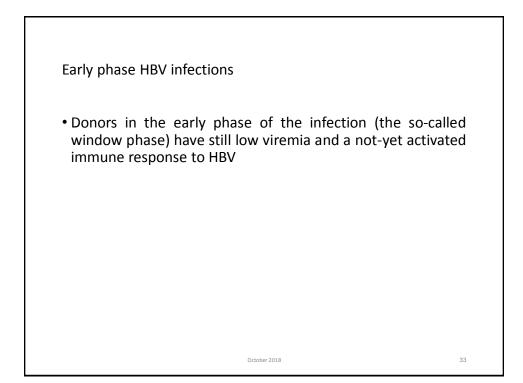


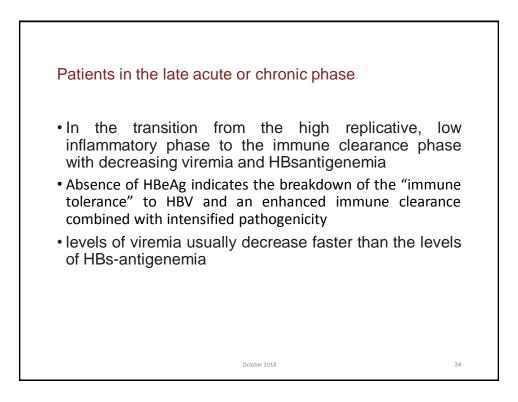


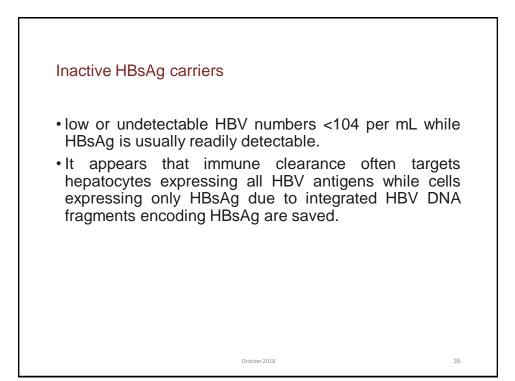


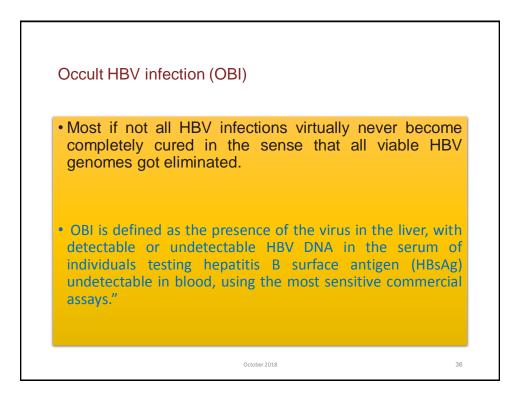


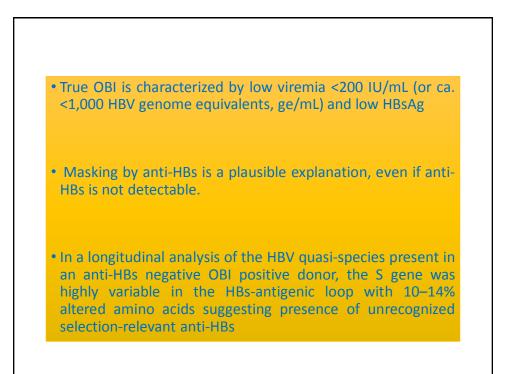


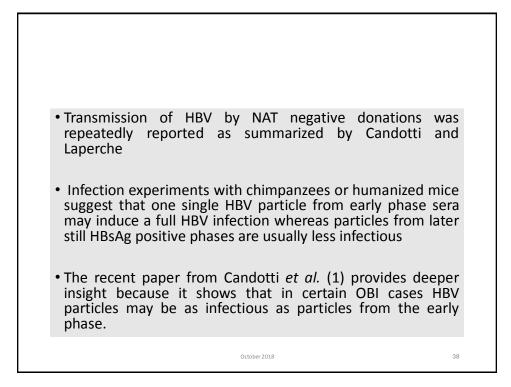


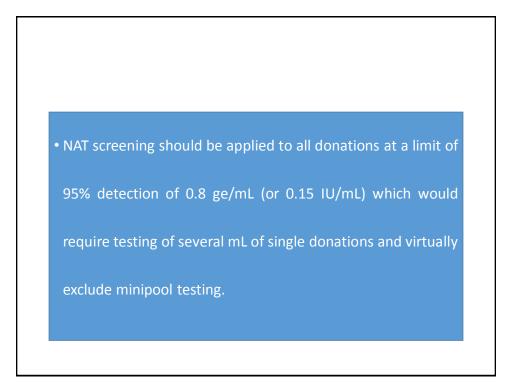


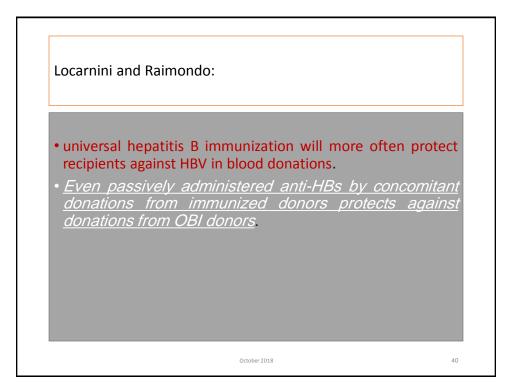


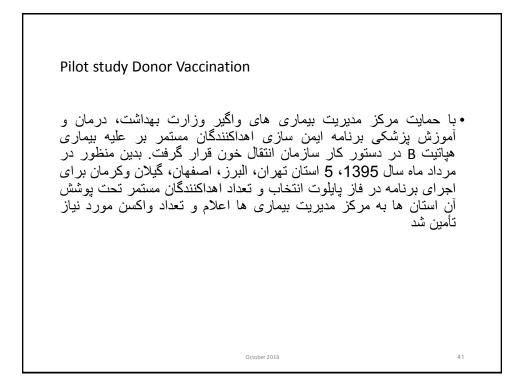


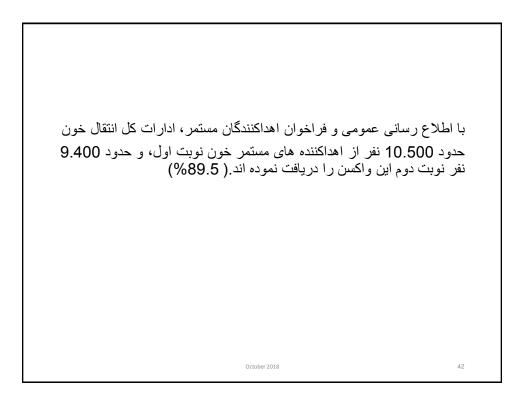












1th 2 <sup>nd</sup> %
گیلان 4092 99%
1642 1538 93%
كرمان 3162 2610 82%
تهران 877 641 73%
البرز 731 522 71%

