

# Forum:Seminar papers/Biophysics/2. LF/2014-2015/Group 4

## Group 4

## Biomechanics of fluids and blood circulation

### Subquestions

- Ideal fluid and it's dynamics:
  - Continuity equation
  - Bernoulli equation
- Real fluids:
  - Viscosity
  - Laminar flow
  - Poiseuille's law
  - Flick's laws
  - Newtonian fluid
  - Non-Newtonian fluid
- Diffusion:
  - Osmosis
  - Osmotic pressure and it's consequences
- Biomechanics of blood circulation:
  - Biomechanics of the heart
  - Biomechanics of blood vessels
  - Blood flow
  - Blood pressure
  - Vessel replacement

### Responsibility for the page content

Subquestion (Link to the subquestion)	Developed by username (Surname, First name)	Team	Started	To be checked	Checked	Evaluation	Notice
Ideal fluid	Victor avramenko (Avramenko, Victor)	4H	7/12	7/12		**	
Continuity equation	Isabellamichal (Michal, Isabella)	4F	7/12	7/12		***	
Bernoulli equation	Mkuse (Kuse, Miare)	4G	6/12	7/12		***	
Real fluid	<i>NOBODY</i>						
Viscosity	Enesdasm (Enes da Silva Nunes, Marisa Andreia)	4G	6/12	7/12		****	
Laminar flow		4E	7/12	7/12		**	
Poiseuille's law	<i>NOBODY</i>						
Flick's laws	Udehc (Udeh, Chioma)	4H	6/12	7/12		**	
Newtonian fluid	Marriotd (Marriot, David Henry)	4H	6/12	7/12		**	
Non-Newtonian fluid	Gomesm (Gomes, Maria Manuela)	4G	6/12	7/12		***	
Diffusion	Ibrahim khan (Khan, Muhammad Ibrahim)	4E	6/12			***	
Osmosis	Sophie Wienhold (Wienhold, Sophie)	4H	6/12	7/12		**	
Osmotic pressure	merzahm (Merzah, Muhammed)	4E	6/12	7/12		**	
Biomechanics of blood circulation	Leakadziya Kharytonchyk (Kharytonchyk, Leakadziya)	4F	6/12	6/12		**	
Biomechanics of the heart	vilarp (Vilar, Pedro)	4F	6/12	7/12		**	
Biomechanics of blood vessels	ribeirof (Ribeiro, Fernando)	4F	6/12	7/12		**	
Blood flow	50085000 (Mohammedsaleh, Abdulhalim)	4E				**	
Blood pressure	poojadhebar (Dhebar, Pooja Kishan)	4G	6/12	7/12		***	
Vessel replacement	Trosienp (Trosien, Paul)	4F	6/12	7/12		****	

### Remarks

avid Henry Marriot (Team 4H) has no topic choosen yet!

Evaluation of the article:

- \* – this article is not good
- \*\* – this article could be worse
- \*\*\* – this article is good
- \*\*\*\* – this article is very good
- \*\*\*\*\* – this article is excellent

## Preparing subquestions

Click on your red coloured subquestion on the table above. The appropriate edit window will be opened and you will start creating the content.

## Help

- Global help: Help:Contents
- Pictures: Lots of free pictures are available on: Wikimedia Commons (<http://commons.wikimedia.org/wiki>)
- Every article must have sources (bibliography); see Template:Cite/documentation how to cite sources.

## Instructions

- Every wikipage (i. e. *subquestion*) should be prepared by **one student**.
  - Only in the case when the number of students in the group is greater than the number of the subquestions is allowed that some subquestions will be prepared by two co-operated students; every of them has to edit appropriate part of the wikipage.
- Fill your *Username* and *real name* in the column: *Developed by username (Surname, First name)*.
- Fill the date in the column *Started* when you start editing the page.
- The **deadline for this seminar work is on Sunday, December 7th**.
- After the Wikipage is written it has to be checked by the professor Carmel J Caruana. Then:
  - On the beginning of the wikipage must be inserted the template:

{{Check|Carmel.j.caruana}}

- Then fill the date in the column *To be checked*.
  - When in doubt e-mail to: [carmel.j.caruana@um.edu.mt](mailto:carmel.j.caruana@um.edu.mt)